

Supplementary Table 1. List of transposable elements (TE) mapped by full-length reads

Name of TE	Number of Reads
AluSq10	1
AluYb3a2	1
Coprina_Cc1	5
EnSpm1_SB	2
Gypsy-33_VV-I	2
Gypsy1-I_Dmoj	1
HARLEQUIN	2
HaSE3	284
hAT6-2_SP	1
HERV9	2
IFG7_I	6
IFP2	182
L1	9
L1-2_Cja	1
L1-Y_CF	4
L1HS	7
L1M1_5	2
L1PA4	1
L1PB2c	2
L1Pt_5end	2
L1P_MA2	1
LTR30	1
MAR1_BM	215
MER2	1
Pre0_SS	1
SABRINA2_TM_LTR	2
TED	2
TFP3	2

Supplementary Table 2. List of primers used in this study

Name of forward primer	Sequence of forward primer	Name of reverse primer	Sequence of reverse primer	Usage
MAR1flk52221-F	AAGACCTTTTGCTGCGGATC	I-R	GTATTGCAGCCAATGGAGACCAC	Verification of the presence of five MAR1 copies in the AcMNPV genome
MAR1flk14007-F	CTTAGTCTTGATCTTGACAGGTGC	I-R	GTATTGCAGCCAATGGAGACCAC	
MAR1flk8565-R	GCCCAACAACCTGGCAATTC	I-F	CTATCACAGCGATTTCGGTTCTC	
MAR1flk5731-R	GTATAACCAACGCCACTATTACCAC	I-F	CTATCACAGCGATTTCGGTTCTC	
MAR1fl134819-R	ACGAAGTCGCTATCAACAGG	I-F	CTATCACAGCGATTTCGGTTCTC	
MAR1miteF	GAAGTGGTCTCCATTGGCTGC	MAR1miteR	GGTGATAAAGAGAACCGAATCGC	Screening for the presence of MAR1 in various lepidopteran species
MAR1tpaseF	GCTTAACTACCTTCTCAAGAATGGTATC	MAR1tpaseR	ACAATGAGACCTCCTCTGTTTGTG	
I-F	CTATCACAGCGATTTCGGTTCTC	I-R	GTATTGCAGCCAATGGAGACCAC	Inverse PCR
IFP2flk168525-F	GAAACACGCGAACAGGAACACGTAG	IFP2-R	CACGCGGTCGTTATAGTTCA	Verification of the presence of three piggyBac copies in the AcMNPV genome
IFP2flk162220-F	GATGAATCGGGCAACGATGTC	IFP2-R	CACGCGGTCGTTATAGTTCA	
IFP2flk87950-F	TTACAGCACTTCGTAGTTGTATCG	IFP2-R	CACGCGGTCGTTATAGTTCA	
IFP2miteF	ATTCTTGAAATATTGCTCTCTTTTC	IFP2miteR	CATGTGTTTTATCGGCTGTATATCGAG	Screening for the presence of piggyBac in various lepidopteran species
IFP2tpase-F	ATGGGATCTTTTATCCATCAGTGC	IFP2tpase-R	GTCATCACAGAACACATTTGGTCTAGC	
ACTARTHROP-F HCO1490F	CTGGACTTCGAGCAGGAGAT TAAACTTCAGGGTGACCAAAAAATCA	ACTARTHROP-R LCO2198R	CACATCTGCTGGAAGGTGGA GCTCAACAATCATAAAGATATTGG	Screening for the presence of nuclear and mitochondrial DNA in baculovirus DNA sample