

Table S1. Primer Sequences Used in This Study, Related to Experimental Procedures

<u>Primer sequences used in this study</u>		
attB1-F-H2A.1	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CTG AAT CTT CCA TTG TTG TTG TCG
attB2-R-H2A.1	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC ATC TTC CTG AGG CTT TGA AGC
attB1-F-H2A.2	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GGA GAG AGA TAG TGA AGA G
attB2-R-H2A.2	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC ATC TTC TTC AGT AGG CTT AG
attB1-F-H2A.10	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CTC CAG AGA GAC ACA ATG CAC AC
attB2-R-H2A.10	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC ATC GTC TTC AGC AGA TGG CTT G
attB1-F-H2A.13	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GAC ATC GTT ACC GTT TCT ATC CT
attB2-R-H2A.13	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC ATC TTC ATC AGC GGA AGG TTT TGA
attB1-F-H2A.X.3	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT CAT ATC GAC CTT GCA TAA GTC G
attB2-R-H2A.X.3	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC AAA CTC TTG AGA AGC AGA TCC G
attB1-F-H2A.X.5	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GA CCA CAA GTG ATG GAA GAA GAG
attB2-R-H2A.X.5	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC GAA CTC CTG AGA AGC AGA TCC
attB1-F-H2A.W.6	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GCA GGT ATT TGA CCG TTA GTT ATC
attB2-R-H2A.W.6	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC AGC TTT CTT TGG AGA CTT GAC TG
attB1-F-H2A.W.7	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT CGT TAA CAC CGA GCT CCA TG
attB2-R-H2A.W.7	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC AGC CTT CTT AGG AGA TTT GGT AG
attB1-F-H2A.W.12	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GTG TGT GAG AGT GAT GAG ATC G
attB2-R-H2A.W.12	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC AGA TTT CTT AGG GGA TTT GGT TGC
attB1-F-H2A.Z.8	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GAT CAT TAT AAC GAC AAT CAG ACG
attB2-R-H2A.Z.8	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC ATC CTT GGT GAC TTT GTT GAC A
attB1-F-H2A.Z.9	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CTC GAG GAG AGT GAA GCA TAG CG
attB2-R-H2A.Z.9	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC TTC CTT GGC GGA TTT GTT GAT GAG
attB1-F-H2A.Z.11	<u>Cloning</u>	GGG GAC AAG TTT GTA CAA AAA AGC AGG CT GAT AGG CTG GAC TTT GGA ACG G
attB2-R-H2A.Z.11	<u>Cloning</u>	GGG GAC CAC TTT GTA CAA GAA AGC TGG GTC CTC CTT GGT GGT TTT GTT GAT GAG
H2A.W.6-TDNA-RP	<u>Genotyping</u>	AATACATAGTCACGCGGATCG
H2A.W.6-TDNA-LP	<u>Genotyping</u>	AATCGCAAAACATCGTAATGG

H2A.W.7-TDNA-RP	Genotyping	TTTGGAGCTTTTGAACAATGG
H2A.W.7-TDNA-LP	Genotyping	CAAAACCCCTTTTCCAGAATC
H2A.W.12-TDNA-RP	Genotyping	TGCAAAATCTATATGAAACGTTGC
H2A.W.12-TDNA-LP	Genotyping	TCGAGTATCTTGCTGCTGAGG
SAIL-LB	Genotyping	TAGCATCTGAATTTTCATAACCAATCTCGATACAC
LBb1.3	Genotyping	ATTTTGCCGATTTCCGGAAC
GABI-LB	Genotyping	ATATTGACCATCATACTCATTGC
H2A.W.6-RT-F	Semi qRT-PCR	GAATCCACCCGAAAAGTGAAG
H2A.W.6-RT-R	Semi qRT-PCR	CTTTGGAGACTTGACTGGTG
H2A.W.7-RT-F	Semi qRT-PCR	GAGCTTTTGAACAATGGAGTCATCACA
H2A.W.7-RT-R	Semi qRT-PCR	GCAGAAGCTTTCTCCGCTTGAG
H2A.W.12-RT-F	Semi qRT-PCR	GCTGGAAGAAGAAGTGGTG
H2A.W.12-RT-R	Semi qRT-PCR	CCTTTGATGGTGATTTGGGT
GAPDH-RT-F	Semi qRT-PCR	AGGGTGGTGCCAAGAAGGTTG
GAPDH-RT-F	Semi qRT-PCR	GTAGCCCCACTCGTTGTCGTA
KYP-RT-F	Semi qRT-PCR	ATTGAGGGTTTGGTATGTGAG
KYP-RT-R	Semi qRT-PCR	CAGCTGGTATGTACTCCCATGA
SUVH5-RT-F	Semi qRT-PCR	GCGGTGGTATTCCTTGTCTA
SUVH5-RT-R	Semi qRT-PCR	ACCCTCTCACTATTCTTCTC
SUVH6-RT-F	Semi qRT-PCR	AGTAAAGAAGAAGGGAGAGGA
SUVH6-RT-R	Semi qRT-PCR	AACAGCATGACTTTGGAGGAA
CMT3-RT-F	Semi qRT-PCR	ACCCAGAGACAAACGTGAGAAA
CMT3-RT-R	Semi qRT-PCR	CATAATTCAGCCACCTTACCTT
DRM2-RT-F	Semi qRT-PCR	AGAGATGTGGAGAAAATGTGG
DRM2-RT-R	Semi qRT-PCR	ATCTCAACAGACACAACAAGC
MET1-RT-F	Semi qRT-PCR	GTGATTCTTAGGGCTATAATGG
MET1-RT-R	Semi qRT-PCR	ACGTAACCTTTCTCTTTGGCA
DDM1-RT-F	Semi qRT-PCR	GGGAAAGCTTAACAACCTGG
DDM1-RT-R	Semi qRT-PCR	CCTATAAACATGAACAGGTTTCGTCTGCCCGAT
Ub10-RT-F	Semi qRT-PCR	GATCTTTGCCGAAAACAATTGGAGG
Ub10-RT-R	Semi qRT-PCR	CGACTTGTCAATTAGAAAAGAAAGAGAT
ACTIN 7-qPCR-R	RT-qPCR	TCGTGGTGGTGAGTTTGTTAC
ACTIN 7-qPCR-F	RT-qPCR	CAGCATCATCACAAGCATCC
SDC-qPCR-R	RT-qPCR	AATGTAAGTTGTAAACCATTTGAACGTGACC
SDC-qPCR-F	RT-qPCR	CAGGCATCCGTAGAACTCATGAGC
soloLTR-qPCR-R	RT-qPCR	AACTAACGTCATTACATACACATCTTG
soloLTR qPCR-F	RT-qPCR	AATTAGGATCTTGTTTGCCAGCTA
H2A.W.6-Fwd-NdeI	Cloning	GGGAATTCAT ATG GAA TCC ACC GGA AAA GTG AAG AAA G
H2A.W.6-Rev-BamHI	Cloning	CGC GGA TCC GCG TTA AGC TTT CTT TGG AGA CTT GAC TGG
H2A.W.6-CT-del-Rev-BamHI	Cloning	CGC GGA TCC GCG TTA CTT CTT AGG CAA TAG AAC AGA G
H2A.1-Fwd-NdeI	Cloning	GGGAATTCAT ATG GCT GGT CGT GGA AAA ACT CTT GGT TCC GGT G
H2A.1-Rev-BamHI	Cloning	CGC GGA TCC GCG CTA ATC TTC CTG AGG CTT TGA AG