

Primers	Sequence(5'-3')
For qRT-PCR	
BmCHSA -2a -F	AGGGAAACGGCGAGATGAG
BmCHSA -2a -R	CGATGAAGGTGACCAGGTAAGC
BmCHSA -2b -F	GAGACGGAGGAAGTCGTTTACA
BmCHSA -2b -R	TCCAAGGACCACGATGAAGG
BmDnmt1-F	CTCTGCGAGCTTTGTTGGACATG
BmDnmt1-R	CGCTGCCGCCAATATGATCAAC
BmDeaf1-F	CAGCATTGGAGAGAGTGAAGTGGAT
BmDeaf1-R	GTCTTGATTTTCAGGGTTCCCCAGTA
SlCHSA -2b -F	CGTAAAAGTCACTATGAAAGGGACGATG
SlCHSA -2b -R	CAATAATGCAAAGTCCCATTGCTGTAA
SlDnmt1-F	AATCCGCTCCTAGACGAACGTGTA
SlDnmt1-R	GGAAATGGCTCTCTGGCATGGA
SlDeaf1-F	TACGCCAGCCGAACCTTCATAA
SlDeaf1-R	ACTAGGAGTGTACCATTCCATTCCG
BmRP49-F	CAGGCGGTTCAAGGGTCAATAC
BmRP49-R	TACGGAATCCATTTGGGAGCAT
SlRP49-F	CGTGAGCTGGAGATCCTGATGAT
SlRP49-R	CTCTACAATGGTCTTGCGCTTCT
For methylation detection (<i>BmCHSA-2b</i>)	
BmCGI2-wai-F	GTTGTTTATTGTTAAGTATTTTTTATAA
BmCGI2-wai-R	ATAACTTCTCACACACAAAAAC
BmCGI2-nei-F	TAAGTTTAAAAATATTGTAAGTTTAGTT
BmCGI2-nei-R	ATCAAATCAACATAAATTTAATTTATAT
BmCGI3-wai-F	TAATATAAATTAAATTTATGTTGATTTG
BmCGI3-wai-R	CCAAATATATCCATAACTCTCTATTATA
BmCGI3-nei-F	AAATTTATGTTGATTTGATAAATTT
BmCGI3-nei-R	ACCCAAAAACAATTTTATATTT
BmCGI4-wai-F	GGAGGTTATTGTATAATTTTTAGTTG

BmCGI4-wai-R	TACAAACAATCACAACACTAACATC
BmCGI4-nei-F	TATTAGTATTTATGTAAAATATTTTATT
BmCGI4-nei-R	TTTTTATAACAAACAAATATCCTATC
For Promoter Reporter Construction(<i>BmCHSA-2b</i>)	
<i>CHSA-2b</i> -CG3-core promoter -F	CTCGAGCTCGTGACCAGTGCCGCAGAACCAAGA TACCGCTGCAC
<i>CHSA-2b</i> -mutCG3-core promoter -F	CTCGAGCTAGTGACCAGTGAAGCAGAACAAAGA TACAGCTGCAC
<i>CHSA-2b</i> -core promoter -R	AGATCTAGCCGAGAATATCAATAAAATAGG
For protein expression	
Deaf1-GFP-F	CCGCGGATGGCCGAGAATAGAAGTTCGGACAAC GTCGTC
Deaf1-GFP-R	GGATCCAGGTGCTGGCTTTCAACAATCAG
Dnmt1-GFP-F	GGTACCGATGCCCACTTCAACTATTACTTGC
Dnmt1-GFP-R	GGATCCCGCACTGTCGTGCTGAAGTACC
Deaf1-F	GGATCCATGGCCGAGAATAGAAGTTCGG
Deaf1-R	CTCGAGTTAGTGCTGGCTTTCAACAATCAGC
Dnmt1-GFP-F	GGATCCTGCCATGGTGCTCCGCTTTC
Dnmt1-GFP-R	CTCGAGATCTGTTCTTCCAACACTGATGGCA
For RNAi	
RNAi Deaf1-F	GAGGGCACGTCTGTGTTGTCTAC
RNAi Deaf1-R	TGTTTCGCAGTCTCCGTCCAT
RNAi Deaf1-T7 F	TAATACGACTCACTATAGGGAGGGCACGTCTGT GTTGTCTAC
RNAi Deaf1-T7 R	TAATACGACTCACTATAGGTGTTTCGCAGTCTCCG TCCAT
RNAi Dnmt1-F	ATCAAGCTGGAGTTGCAGAATG
RNAi Dnmt1-R	TTAAAGGCCACAAAGTTACGAA
RNAi Dnmt1-T7 F	TAATACGACTCACTATAGGATCAAGCTGGAGTT GCAGAATG
RNAi Dnmt1-T7 R	TAATACGACTCACTATAGGTAAAGGCCACAAA GTTACGAA
dsGFPF	TACGGCGTGCAAGTGCTTCAGCC
dsGFPR	GTGCTCAGGTAGTGGTTGTTCGG

dsGFPF-T7	TAATACGACTCACTATAGGTACGGCGTGCAGTG CTTCAGCC
dsGFPR-T7	TAATACGACTCACTATAGGGTGCTCAGGTAGTG GTTGTCGG
For EMSA	
CG island 3-F	CTCGTGACCAGTGCCGCAGAACCAAGATACCGC TGCAC
CG island 3-R	GTGCAGCGGTATCTTGTTCTGCGGCACTGGTCA CGAG
CG island 3 mut-F	CTAGTGACCAGTGAAGCAGAACAAAGATACAGC TGCAC
CG island 3 mut-R	GTGCAGCTGTATCTTTGTTCTGCTTCACTGGTCA CTAG
CG island 3 met-F	CT <u>C</u> GTGACCAGTGCC <u>C</u> GCAGAAC <u>C</u> AAGATAC <u>C</u> GC TGCAC
CG island 3 met-R	GTGCAG <u>C</u> GGTATCTTGTTCTG <u>C</u> GGCACTGGTCA <u>C</u> GAG
For ChIP	
CGI3-ChIP-F	CGGCAATTAACGAGTGGACGATAT
CGI3-ChIP-R	CAGTAGTATCTTGTTCTGCGACAC