

**Table S1 List of 60 restriction enzymes used in this study, along with their catalogue numbers and basic features: recognition site and length, reported methylation sensitivity, active temperature (Temp) and unit cost (€/unit)**

Enzyme <sup>a</sup>	Catalogue number	Recognition site	Site length	Methylation	Temp (°C)	€/unit
AccII (FnuDII)	Clontech 1002A	CG CG	4	CpG	37	45
AflII	R0520L	C TTAAG	6	No	37	3.4
AluI	R0137L	AG CT	4	No	37	7.2
AlwNI	R0514L	CAGNNN CTG	9	dcm	37	14.4
ApeKI	R0643L	G CWGC	5	CpG	75	29.8
AvaII	R0153L	G GWCC	5	CpG	37	3.4
BamHI	R0136L	G GATCC	6	No	37	0.6
BfaI	R0568L	C TAG	4	No	37	15.6
BglII	R0143L	GCCNNNN NGGC	11	CpG	37	3.2
BglIII	R0144L	A GATCT	6	No	37	3.2
BsrFI	R0562L	R CCGGY	6	CpG	37	6.9
BssHII	R0199L	G CGCGC	6	CpG	37	14.4
BstNI	R0168L	CC WGG	5	No	60	2.1
BstYI	R0523L	R GATCY	6	No	60	3.4
CviAII	R0640L	C ATG	4	No	25	34.3
CviKI-1 (CviTI)	R0710L	RG CY	4	No	37	29.8
CviRI	Jin <i>et al.</i> 1994	TG CA	4	CpG	23	n/a
DdeI	R0175L	C TNAG	5	No	37	7.2
DpnI	R0176L	GA TC	4	CpG	37	6.9
EagI	R3505L	C GGCCG	6	CpG	37	13.7
EcoRI	R3101L	G AATTC	6	CpG	37	0.6
EcoRV	R0195L	GAT ATC	6	CpG	37	1.6
EcoT22I (AvaIII)	Clontech 1125A	ATGCA T	6	No	37	3.8
Fnu4HI	R0178L	GC NGC	5	CpG	37	36.1
FseI	R0588L	GGCCGG CC	8	CpG,dcm	37	77.8
HaeIII	R0108L	GG CC	4	No	37	2.2
HhaI	R0139L	GCG C	4	CpG	37	3.2
HindIII	R3104L	A AGCTT	6	No	37	0.6
HinfI	R0155L	G ANTC	5	CpG	37	1.3
Hpy188I	R0617L	TCN GA	5	dam	37	7.2
Hpy99I	R0615L	CGWCG	5	CpG	37	72.2
HpyCH4III	R0618L	ACN GT	5	No	37	28.9
HpyCH4IV	R0619L	A CGT	4	CpG	37	14.4
KpnI	R3142L	GGTAC C	6	No	37	1.7
MluCI	R0538L	AATT	4	No	37	6.9
MseI	R0525L	T TAA	4	No	37	14.4
MspI	R0106L	C CGG	4	No	37	1.4
NciI	R0196L	CC SGG	5	CpG	37	3.4
NgoMIV	R0564L	G CCGGC	6	CpG	37	6.9
NlaIII	R0125L	CATG	4	No	37	14.4
NotI	R0189L	GC GGCCGC	8	CpG	37	15.6
NsiI	R0127L	ATGCA T	6	No	37	6.9
PsiI	R0657L	TTA TAA	6	No	37	61.9
PstI	R3140L	CTGCA G	6	No	37	0.7
RsaI	R0167L	GT AC	4	CpG	37	6.3
SacI	R0156L	GAGCT C	6	No	37	3.2
SacII	R0157L	CCGC GG	6	CpG	37	3.3
SalI	R3138L	G TCGAC	6	CpG	37	3.3
Sau96I	R0165L	G GNCC	5	CpG,dcm	37	6.6
SbfI	R0642L	CCTGCA GG	8	No	37	15.6
ScrFI	R0110L	CC NGG	5	CpG,dcm	37	7.2
SgrAI	R0603L	CR CCGGYG	8	CpG	37	7.2
SmaI	R0141L	CCC GGG	6	CpG	25	3.3
SphI	R0182L	GCATG C	6	No	37	14.4
SspI	R0132L	AAT ATT	6	No	37	7.4
TaqI	R0149L	T CGA	4	dam	65	1.6
TfiI	R0546L	G AWTC	5	CpG	65	14.4
Tsp45I	R0583L	GTSAC	5	No	65	37.2
XbaI	R0145L	T CTAGA	6	dam	37	2.5
XhoI	R0146L	C TCGAG	6	CpG	37	1.5

<sup>a</sup> The enzyme information, including methylation sensitive, active temperature and cost per unit (in Canadian dollars), was obtained from the catalogues of New England BioLabs (starting with R) and Clontech, or published literature (Jin *et al.* 1994. Nucl. Acids Res. 22:3928–3929). Alternate name for the enzyme is given in parenthesis.