

Dam and Dcm Methylase

Dam Methylation			
Inhibited		Not Inhibited	
Enzyme	Sequence (5' to 3')	Enzyme	Sequence (5' to 3')
<i>Bcl</i> I	T GATCA	<i>Bam</i> H I	G GATCC
<i>Bsp</i> 106 I	AT CGATC	<i>Bgl</i> II	A GATCT
<i>Cla</i> I	GAT CGAT	<i>Bsp</i> M II	TCC GGATC
<i>Hph</i> I	GGT GATC	<i>Pvu</i> I	CGAT CG
<i>Mbo</i> I	GATC	<i>Sau</i> 3A I	GATC
<i>Mbo</i> II	GAAGATC		
<i>Nru</i> I	GATCG CGA		
<i>Taq</i> I	TCGA		
<i>Xba</i> I	T CTAGA		
<p>The dam methylase will transfer a methyl group from S-adenosylmethionine to the N6 position of the adenine residue in the sequence GATC.</p> <p>Recognition sequences are indicated in bold type.</p>			

Dcm Methylation			
Inhibited		Not Inhibited	
Enzyme	Sequence (5' to 3')	Enzyme	Sequence (5' to 3')
<i>Apa</i> I	GGGCC /C(A/T)GG	<i>Bgl</i> I	GCC (A/T)GGN/NGGC
<i>Ava</i> II	G /G(A/T) CC (A/T)GG	<i>Bst</i> N I	CC (A/T)GG
<i>Bal</i> I	TGG /CCAGG	<i>Bst</i> E II	GGTNACC (A/T)GG
<i>Eae</i> I	(C /T)GGCCAGG	<i>Pal</i> I	GGCC (A/T)GG
<i>Eco</i> 0109 I	PuGGNCC (A/T)GG	<i>Kpn</i> I	GGTAC /C(A/T)GG
<i>Eco</i> R II	/CC(A/T)GG	<i>Nar</i> I	GG /CGCC(A/T)GG
<i>Fok</i> I	CC(A/T)GGATGN9/	<i>Sfi</i> I	GGCCN4 /NGGCC(A/T)GG
<i>Hin</i> I I	GPuCG (G/C) C (A/T)GG		
<i>Sau</i> 96 I	G/GNCC(A/T)GG		
<i>Scr</i> F I	CC /(A/T)GG		
<i>Stu</i> I	AGG /CCTGG		
<p>The dcm methylase, in contrast, has been shown to methylate the internal cytosine residues in the 5' to 3' sequences CCAGG and CCTGG.</p> <p>Recognition sequences are indicated in bold type.</p>			