

# DpnI

DpnI cuts sites 'GATC' if the adenine is methylated.

Recognition					
thermTemp.	37 °C				
microtubeBuffer	Low	Mid	High	Ac	KCl
<input checked="" type="checkbox"/> 75%	X	X	X	O	X

## Reaction

DpnI cuts sites 'GmATC' (mA: N6-methyladenine). The structures below are part of dam-methylated pUC19 and non-methylated pUC19, respectively.

Methylated - reactive	Unmethylated - inert

## Comparison with DpnII and MboI

DpnII and MboI are isoschizomers that recognize a same sequence and cut at same position. These REases can cut unmethylated sequence.

Methylated - inert	Unmethylated - reactive

## Links

- [Restriction enzyme](#)
  - [DpnII sticky5](#)
  - [Sau3AI sticky5](#)
  - [MboI sticky5](#)
  - [Buffer for restriction enzymes](#)
- [REBASE](#)

[Restriction enzyme, blunt](#)

From:

<https://bio.edu-wiki.org/> - BioWiki

Permanent link:

<https://bio.edu-wiki.org/en/dpni>

Last update: **2013/06/09 10:10**

