

TABLE S7. Summary of the sensitivity of various restriction endonucleases to DNA modifications introduced by the JCM7686_0815 protein (m⁴C MTase).

REase	Recognition site	Sensitivity to m ⁴ C	Number of sites in pET30_JCM7686_0815	Cleavage
CfrI	YGGCCR	U	5	P, L
HaeIII	GGCC	S	26	P*
Hin6I	GCGC	U	53	Y
HpaII	CCGG	S	34	Y
MspI	CcGG	S	34	Y

* the larger fused DNA fragments were observed only in case of incomplete cleavage of BsuRI sites that overlapped CfrI target sequences (YGGCCR).

Y – complete cleavage; P – partial digestion; L – partial plasmid cleavage; S – sensitive to m⁴C; U – unknown sensitivity to m⁴C; **C** – the enzyme will not cleave if the **marked** cytosine is methylated; **c** – the enzyme is not sensitive to methylation of the marked cytosine; **C** – there are no data on the sensitivity of the enzyme to methylation of the unmarked cytosine.