

PLASMID DNA

C	C	C	C	A	T	T	A	C	G	T	A	T	A
C	G	A	A	A	T	G	C	G	C	G	C	G	T
C	G	A	A	A	T	A	T	C	G	G	C	C	T
A	T	A	A	A	T	A	T	C	G	T	A	C	G
G	T	T	T	T	T	T	T	T	T	T	T	T	T
G	C	T	C	T	C	C	C	C	C	C	C	C	C
T	A	T	A	T	A	T	A	T	A	T	A	T	A
T	A	T	A	T	A	T	A	T	A	T	A	T	A
A	A	A	A	A	A	A	A	A	A	A	A	A	A
A	T	A	A	T	A	T	A	T	A	T	A	T	A
A	G	C	C	T	C	G	C	G	C	A	T	A	C
T	C	A	G	A	T	A	T	C	G	A	T	C	G
T	A	G	C	T	C	T	A	C	G	T	A	C	G

TETRACYCLIN
RESISTANCE

AMPICILLIN
RESISTANCE

REPLICATION
SITE

KANAMYCIN
RESISTANCE

HUMAN DNA

A	G	C	T	A	T	A	G	C	T	A
G	C	A	T	A	T	A	T	A	T	
G	C	G	C	C	G	C	G	A	T	G
G	C		T	G	C	G	C	A	T	G
C	G	T	A	A		T	A	T	A	A
	G	T		A	T	C	G	A	T	T
T	A		G	G		A	T	T	A	C
A		T	A	G	C	T	A	T	A	G
G	C	T	A	T	A	G	C	C	G	G
G	C	A	T	A	T	T	A	C	G	G
	G	A	T	C	G	G	C	A	G	G
A	T	G	C	A	T	C	G	C		C
C	G		A	T	A	C	G	C	G	C
A	T	C	G	A	T	T	A	T	A	C
	C	A	T	A	T	T	A	A	A	T
G	C	A	T	C	G	T	A	A	T	T
G	C		C	G	C	T	A	A	T	G
C	G	C	G	T	A	A	T	C	T	G
	G	A	T	C	G	A	T	T	A	T
C	G	G	C	T	A	A	T	A	T	C
G		G	C	C	G	T	A	T	A	C
1	2	3	4	5	6					

HUMAN INSULIN GENE

ENZYMES

$ \begin{array}{c} \underline{C} \quad G \\ C \quad G \\ T \quad A \\ G \quad C \\ G \quad C \end{array} $ <p style="text-align: right; margin-right: 20px;">Ava II</p>	$ \begin{array}{c} T \quad A \\ \underline{T} \quad A \\ C \quad G \\ G \quad C \\ A \quad T \\ A \quad T \end{array} $ <p style="text-align: right; margin-right: 20px;">Hind III</p>	$ \begin{array}{c} C \quad G \\ \underline{C} \quad G \\ T \quad A \\ A \quad T \\ G \quad C \\ \quad \quad C \end{array} $ <p style="text-align: right; margin-right: 20px;">Bam HI</p>
$ \begin{array}{c} T \quad A \\ \underline{C} \quad G \\ T \quad A \\ A \quad T \\ G \quad C \\ A \quad T \end{array} $ <p style="text-align: right; margin-right: 20px;">Bgl II</p>	$ \begin{array}{c} G \quad C \\ \underline{G} \quad C \\ C \quad G \\ C \quad G \end{array} $ <p style="text-align: right; margin-right: 20px;">Hpa II</p>	$ \begin{array}{c} C \quad G \\ T \quad A \\ T \quad A \\ A \quad T \\ A \quad T \\ G \quad C \end{array} $ <p style="text-align: right; margin-right: 20px;">Eco RI</p>
$ \begin{array}{c} C \quad G \\ \underline{T} \quad A \\ C \quad G \\ G \quad C \\ A \quad T \\ G \quad C \end{array} $ <p style="text-align: right; margin-right: 20px;">Sac I</p>	$ \begin{array}{c} G \quad C \\ \underline{G} \quad C \\ G \quad C \\ C \quad G \\ C \quad G \\ C \quad G \end{array} $ <p style="text-align: right; margin-right: 20px;">Xma I</p>	<p style="font-size: 1.5em; font-weight: bold; margin: 0;">LIGASE</p>