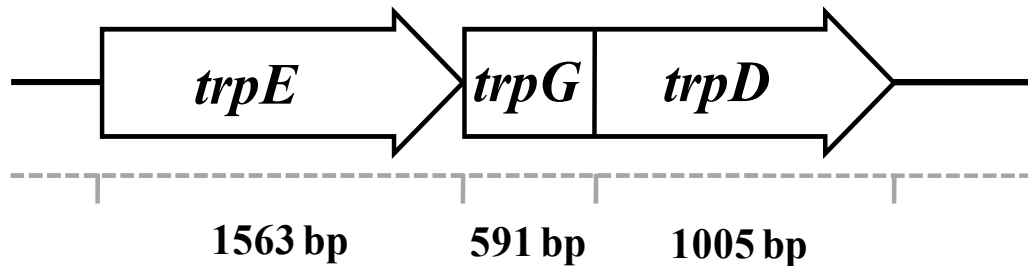


a)



b)

Glutamine amidotransferase domain

trpG

Anthranilate phosphoribosyl transferase domain

trpD

Escherichia coli
MG1655

574-CAG	AAA	CTA	GAG	CCA	GCC	AAC	ACG	CTG	CAA	CCG	ATT	CTG	G AA	AAA	CTG	...
192- Q	K	L	E	P	A	N	T	L	Q	P	I	L	E	K	L	...

Escherichia coli
*trpD*9923

574-CAG	AAA	CTA	GAG	CCA	GCC	AAC	ACG	CTG	CAA	CCG	ATT	CTG	T AA	AAA	CTG	...
192- Q	K	L	E	P	A	N	T	L	Q	P	I	L	Stop			