

Table S2. *Mod* alleles and repeat numbers for *N. gonorrhoeae* clinical isolate strains

Strain	Pathology ^a	<i>modA</i> allele ^c	Repeats AGCC ^b	<i>modB</i> allele ^c	Repeats CCCAA ^b
FA1090	DGI	<i>modA13</i>	19 (ON)	<i>modB1</i>	12 (ON)
01G1052	MI	<i>modA13</i>	15 (OFF)	<i>modB1</i>	16 (OFF)
01G1370 ^d	MI	<i>modA13</i>	13 (ON)	NA	NA
01G0957	DGI	<i>modA12</i>	13 (ON)	<i>modB1</i>	16 (OFF)
90/G747	DGI	<i>modA13</i>	17 (OFF)	<i>modB1</i>	8 (OFF)
94G163	MI	<i>modA13</i>	17 (OFF)	<i>modB1</i>	31 (OFF)
98G1131	DGI	<i>modA12</i>	20 (OFF)	<i>modB1</i>	20 (OFF)
00G0794 ^d	MI	<i>modA12</i>	33 (OFF)	<i>modB1</i>	8 (OFF)
01D064	MI	<i>modA12</i>	17 (OFF)	<i>modB1</i>	21 (ON)
02D004	DGI	<i>modA12</i>	26 (OFF)	<i>modB1</i>	17(OFF)
02D156	DGI	<i>modA12</i>	15 (OFF)	<i>modB1</i>	2 (OFF)
02W001	DGI	<i>modA13</i>	10 (ON)	<i>modB1</i>	19 (OFF)
98D159	DGI	<i>modA12</i>	27 (OFF)	<i>modB1</i>	16 (OFF)
97D040	DGI	<i>modA12</i>	20 (OFF)	<i>modB1</i>	12 (ON)
97D059	MI	<i>modA12</i>	24 (OFF)	<i>modB1</i>	2 (OFF)
96D551	MI	<i>modA12</i>	25 (ON)	<i>modB1</i>	16 (OFF)
1291	UG	<i>modA13</i>	15 (OFF)	<i>modB1</i>	7 (OFF)
MS11	UG	<i>modA13</i>	26 (OFF)	<i>modB1</i>	8 (OFF)

^a DGI: disseminated gonococcal infection clinical isolates, MI: asymptomatic carriage or mucosal gonorrhoeae infection clinical isolates, UG: uncomplicated gonorrhoeae

^b Number and expression state of repeats within the *mod* gene; in-frame (ON) or out-of-frame (OFF)

^c A strain was defined as having the *modA13* allele if the DNA recognition region was $\geq 95\%$ identical at the nucleotide level to the *modA13* gene of *N. gonorrhoeae* strain FA1090 (NGO0641), and as *modA12* allele if the DNA recognition region was $\geq 95\%$ identical at the nucleotide level to the *modA12* gene of *N. meningitidis* strain Z2491 (NMA1589/90). A strain was defined as having the *modB1* allele if the DNA recognition region was $\geq 95\%$ identical at the nucleotide level to the *modB1* gene of *N. gonorrhoeae* strain FA1090 (NGO0545), see Figure 1.

NA- *modB* gene not present,

^d 750 bp in-frame deletion in *res*

ND: not determined

Refer to Figure 1 and to the text