Table S1. Plasmids

Plasmid	Description	Source
pHSS6-GCU	Vector containing gonococcal uptake sequence (Kan^r)	(1)
pUNCH412	FA19 *tbpA* in pET-11	(2)
pUNCH755	Vector containing truncated and nonfunctional *tbpB* gene, full length *tbpA* gene, and *tbpA* downstream region with an mTn*3*Cm insertion	(3)
pVCU150	pHSS6-GCU containing *tbpA* gene with K351A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU151	pHSS6-GCU containing *tbpA* gene with D355A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU152	pHSS6-GCU containing *tbpA* gene with D355K mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU153	pHSS6-GCU containing *tbpA* gene with N357A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU154	pHSS6-GCU containing *tbpA* gene with Q358A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU155	pHSS6-GCU containing *tbpA* gene with K359A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU156	pHSS6-GCU containing *tbpA* gene with K359E mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU157	pHSS6-GCU containing *tbpA* gene with K359R mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU158	pHSS6-GCU containing *tbpA* gene with Q360A mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU159	pHSS6-GCU containing *tbpA* gene with Q360E mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study
pVCU160	pHSS6-GCU containing *tbpA* gene with Q360K mutation, novel silent BamHI site at *tbpA* bp 1488-1493, and no stop codon	This study

pVCU161	pUNCH755 containing *tbpA* gene from pVCU150	This study
pVCU162	pUNCH755 containing *tbpA* gene from pVCU151	This study
pVCU163	pUNCH755 containing *tbpA* gene from pVCU152	This study
pVCU164	pUNCH755 containing *tbpA* gene from pVCU153	This study
pVCU165	pUNCH755 containing *tbpA* gene from pVCU154	This study
pVCU166	pUNCH755 containing *tbpA* gene from pVCU155	This study
pVCU167	pUNCH755 containing *tbpA* gene from pVCU156	This study
pVCU168	pUNCH755 containing *tbpA* gene from pVCU157	This study
pVCU169	pUNCH755 containing *tbpA* gene from pVCU158	This study
pVCU170	pUNCH755 containing *tbpA* gene from pVCU159	This study
pVCU171	pUNCH755 containing *tbpA* gene from pVCU160	This study
pVCU172	pUNCH755 containing *tbpA* gene with deletion from bp 1453-1488 (loop 3 helix region)	This study
pVCU757	FA 1090 *tbpA* in pET22b	This study

1

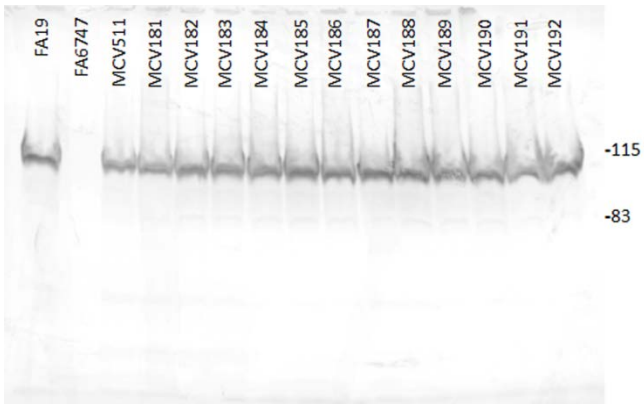

Fig S1. TbpA expression determination by western blot. WT and mutant gonococci were iron stressed in liquid CDM for 4 hours, standardized to cell density, pelleted, and lysed. Lysates were subjected to a bicinchoninic acid assay (Thermo) to assess protein levels, and then evenly loaded for SDS-PAGE and subsequent transfer to nitrocellulose. Equivalent protein loading was confirmed by ponceau staining. The western blot was probed with polyclonal TbpA antibody, and developed with the NBT/BCIP development system (Sigma). TbpA bands are present at 100 kDa.

References

1. **Elkins, C, Thomas, CE, Seifert, HS, Sparling, PF.** 1991. Species-specific uptake of DNA by gonococci is mediated by a 10-base-pair sequence. J. Bacteriol. **173:**3911-3913.

2. **Cornelissen, CN, Biswas, GD, Sparling, PF.** 1993. Expression of gonococcal transferrin-binding protein 1 causes *Escherichia coli* to bind human transferrin. J. Bacteriol. **175:**2448-2450.

3. **Anderson, JE, Sparling, PF, Cornelissen, CN.** 1994. Gonococcal transferrin-binding protein 2 facilitates but is not essential for transferrin utilization. J. Bacteriol. **176:**3162-3170.