

S1 Table. Summary of two-hybrid interactions of α -MreB double-protofilament interface mutants.

α -MreB mutant	λ CI-CbtA [†]	λ CI-RodZ _{NTD} [‡]
WT	+++	+++
K77D	++	++
D78K	++	+++
F84A	-	++
V121E	+++	+++
R124D	++	+++
A125D	++	++
I126V*	-	+++
R127D	+	-
E128K	++++	+++
V173A*	-	++
R188D	++++	+++
D192K	-	++
E196G*	+	+++
E196K	+	+++
N200A	+++	+++
R204D	++	++++
E262G*	-	++
E262K	+	+++
G266E	++++	++++
S269F	+++++	+++
V273E	++++	++++
S284D	+++	++++

- less than 40% of wild-type interaction; + 40-59% of wild-type interaction; ++ 60-89% of wild-type interaction; +++ 90-100% of wild-type interaction; ++++ 101-200% of wild-type interaction; +++++ greater than 200% of wild-type interaction

[†] λ CI-CbtA interactions were assessed at 100 μ M IPTG

[‡] λ CI-RodZ_{NTD} interactions were assessed at 25 μ M IPTG

* These mutants were identified in our original two-hybrid screen