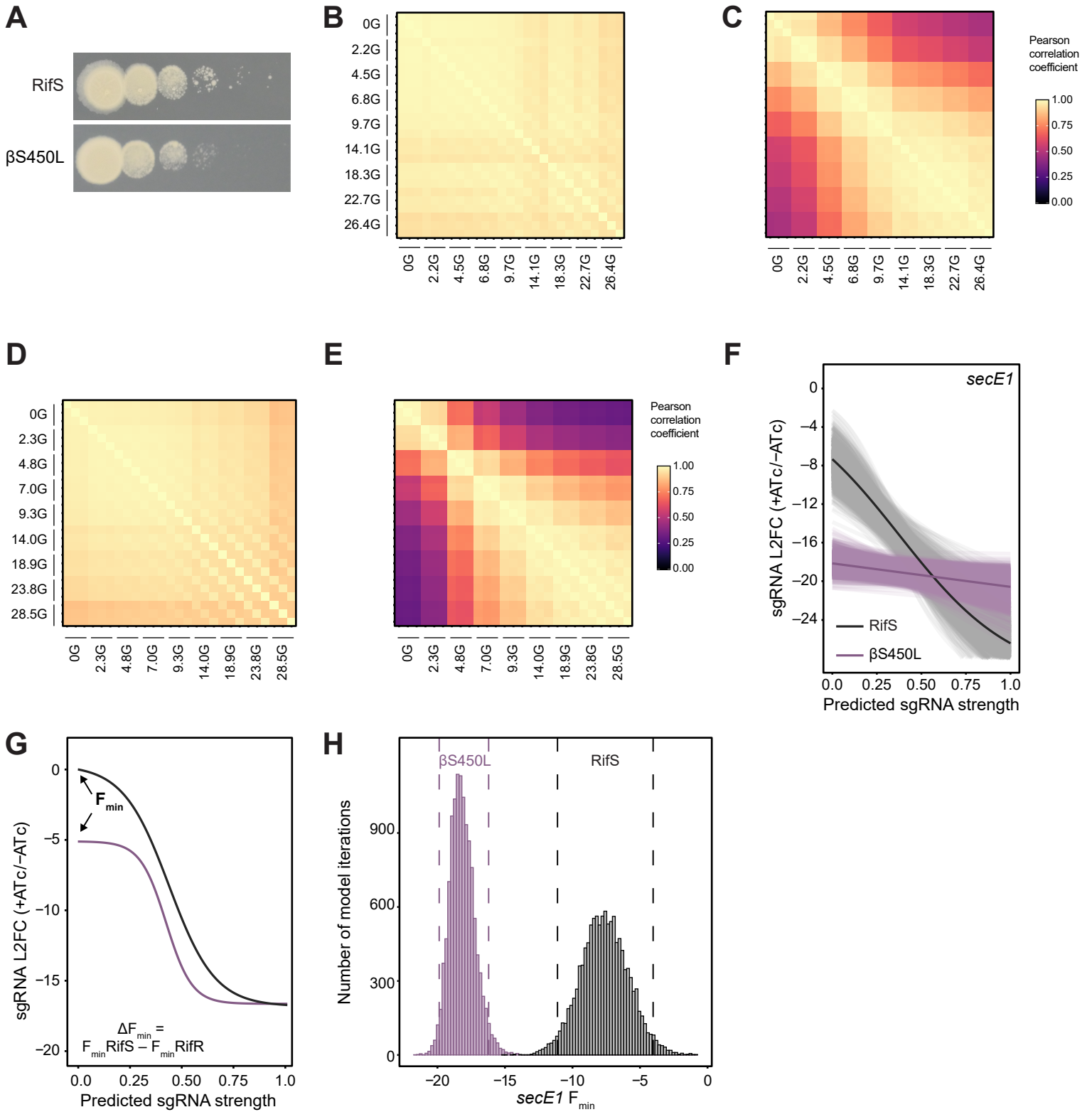
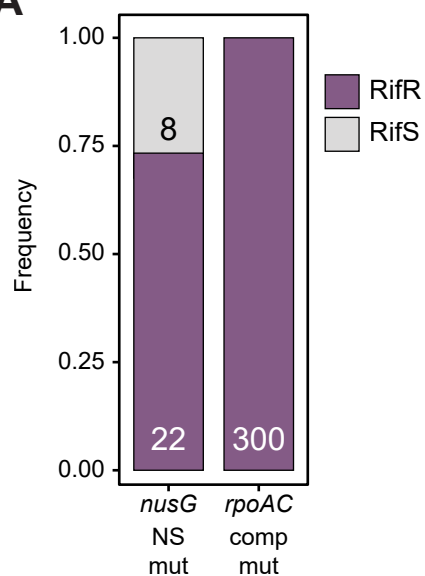


Supplemental Figure 1

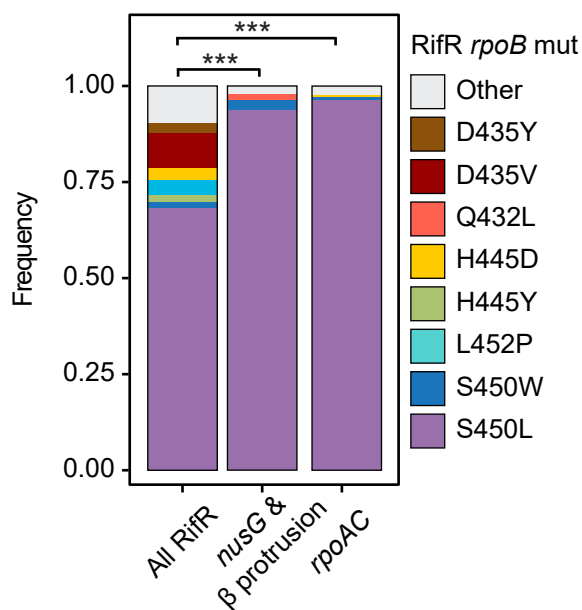


Supplemental Figure 2

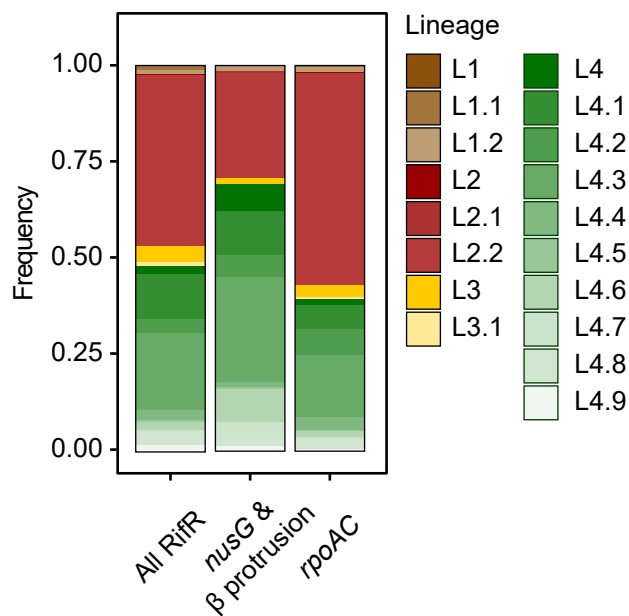
A



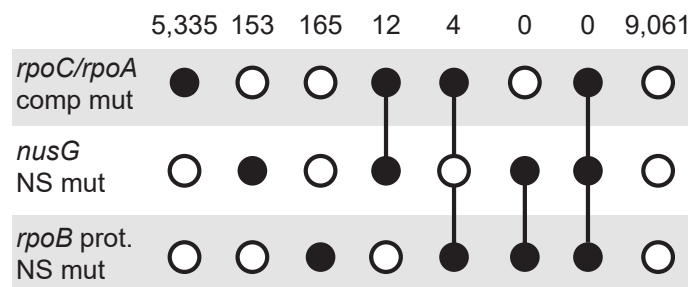
B



C

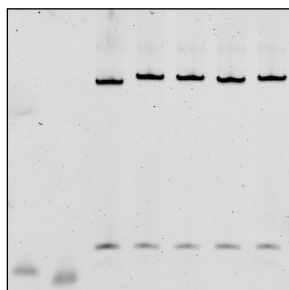


D



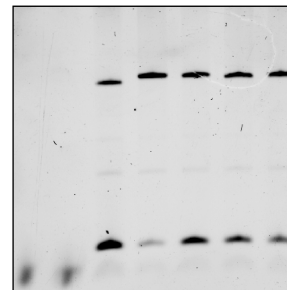
E

WT Core			X	X	X	X	X
NT-DNA	X		X	X	X	X	X
T-DNA		X	X	X	X	X	X
WT NusG				X			
N65H NusG					X		
R124L NusG						X	
N125S NusG							X



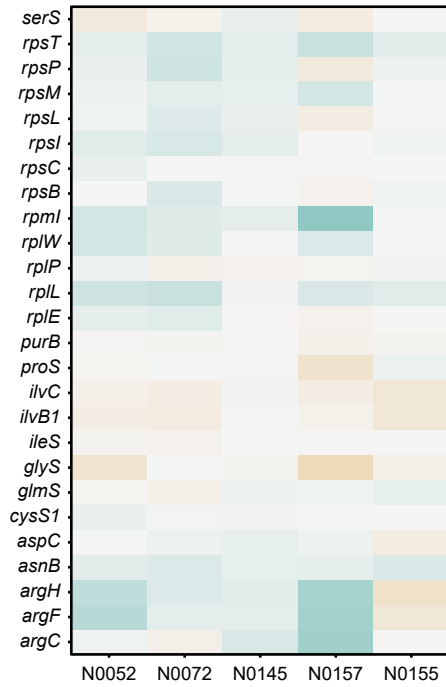
F

βS450L Core			X	X	X	X	X
NT-DNA	X		X	X	X	X	X
T-DNA		X	X	X	X	X	X
WT NusG				X			
N65H NusG					X		
R124L NusG						X	
N125S NusG							X

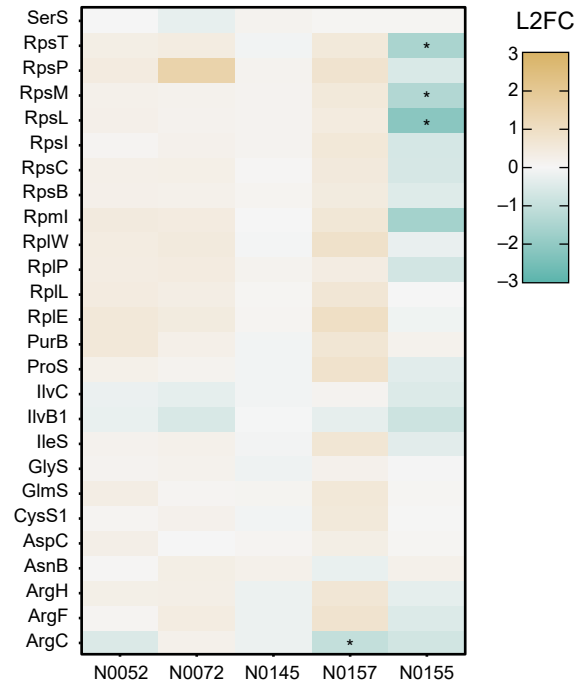


Supplemental Figure 3

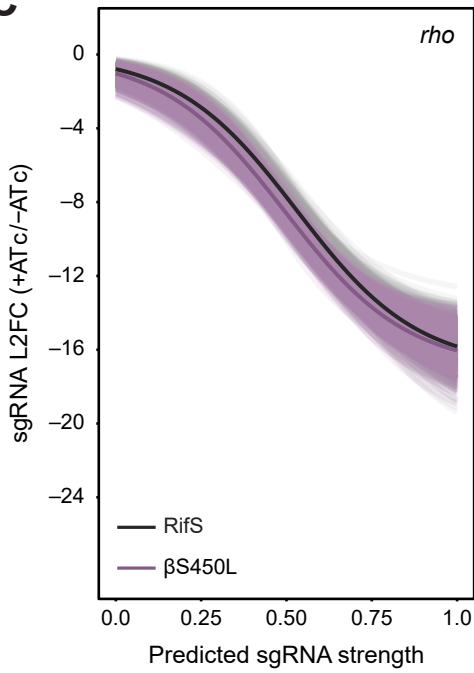
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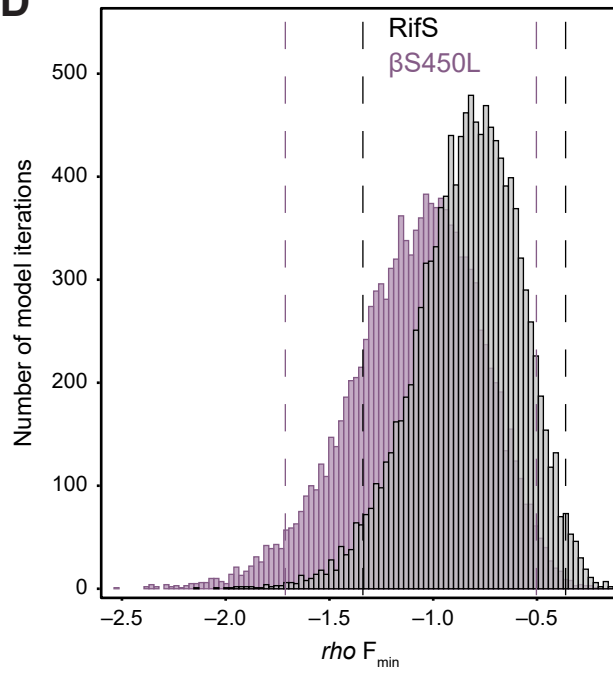
B



C



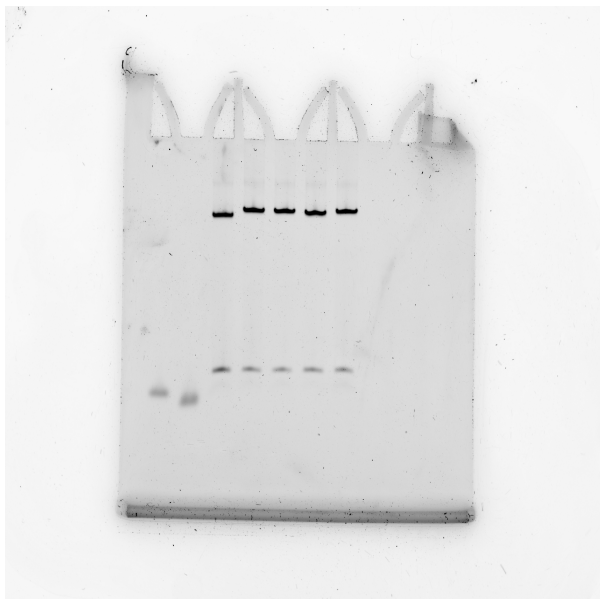
D



Supplemental Figure 4

A WT RNAP

WT Core			X	X	X	X	X	X
NT-DNA	X		X	X	X	X	X	X
T-DNA		X	X	X	X	X	X	X
WT NusG			X					
N65H NusG				X				
R124L NusG					X			
N125S NusG							X	



B β S450L RNAP

β S450L Core			X	X	X	X	X
NT-DNA	X		X	X	X	X	X
T-DNA		X	X	X	X	X	X
WT NusG			X				
N65H NusG				X			
R124L NusG					X		
N125S NusG						X	

