

A**BW25113 Δ rfaG Ranking**

Variant	Replicate 1 Rank	Replicate 2 Rank	Replicate 3 Rank
V544R	6	4	5
S541K	5	8	6
S541H			8
N501R	8	7	
N501H	4	5	4
G521R	3	3	3
G521K	2	2	2
G521H	1	1	1
A539K	10	9	7
A518R	7	6	9
A500R	9	10	10

B**BW25113 Δ rfaD Ranking**

Variant	Replicate 1 Rank	Replicate 2 Rank	Replicate 3 Rank
S541R	5	6	7
S541K	2	2	3
S541H		7	
S541E	4	5	5
R525*	8		10
N501K			4
N501H		4	
G521R	1	3	2
G521K	6	8	6
G521H			1
G521C	9		
G480R	10		8
G479Q		9	
D540S			9
A539K	7		
A500R	3	1	

Figure 4 – Figure Supplement 3. Ranking F_N of the ten most enriched variants in each biological replicate for **(A)** *E. coli* BW25113 Δ rfaG and **(B)** BW25113 Δ rfaD.