

Table S1: Strains used in this study

Strain	Description	Source
TUV 93-0	Shiga-toxin negative variant of EHEC O157:H7, derived from EDL933 outbreak strain	(1)
E2348/69	Wild type EPEC O127:H6	(2)
ΔescC	Δ escC derivative of EPEC E2348/69	(2)
ΔescF	Δ escF derivative of EPEC E2348/69	(2)
ΔescR	Δ escR derivative of EPEC E2348/69	(2)
ΔescV	Δ escV derivative of EPEC E2348/69	(2)
ICC168	Wild type <i>Citrobacter rodentium</i>	(2)
DBS100	DBS100 lysogenized with Φ 1720a02 Δ Rz::cat Δ stx2dactAB::kan, CmR, KmR	(3)

Table S2: Plasmids used in this study

Plasmid	Description	Source
pAJR70	Empty plasmid vector, Chloramphenicol resistance marker.	(4)
<i>pler-gfp</i>	<i>ler</i> promoter fused to gfp. Chloramphenicol resistance marker.	(4)
<i>prpsM-gfp</i>	<i>rpsM</i> promoter fused to gfp. Chloramphenicol resistance marker.	(4)
pVS45	Plasmid encoding <i>ler</i> with arabinose inducible promoter. Ampicillin resistance marker	(5)
<i>precA-gfp</i>	<i>recA</i> fused to gfp. Chloramphenicol resistance marker.	(6)
<i>ptir-gfp</i>	<i>tir</i> fused to gfp. Chloramphenicol resistance marker	

Table S3: MASCOT results for EPEC secreted protein bands

Protein	Mass	MASCOT score	Matches
EspB	31564	498	9/9
EspD	39033	1204	21/21
Tir	57954	2116	43/43

Table S4: MASCOT results for EHEC secreted protein bands

Protein	Mass	MASCOT score	Matches
EspB	31564	648	11/11
EspD	39033	874	14/14
Tir	57954	2336	50/50
EspP	135881	2655	47/47

Table S5: MASCOT result for *C. rodentium* secreted protein bands

Protein	Mass	MASCOT score	Matches
EspB	31564	-	-
EspD	39033	-	-
Tir	57954	377	6/6

Table S6: Chromosomal EHEC TUV93-0 genes downregulated in the presence of Aurodox.

Gene	Fold Change	P Value
espH	-1.51	0.04
metE	-1.51	0.01
ydgA	-1.52	0.00827
Z2386	-1.53	0.0021
escJ	-1.53	0.03
rpoE	-1.54	0.000591
Z2387	-1.55	0.00607
adhE	-1.56	0.000144
yeaD	-1.6	0.000375
sepZ	-1.6	0.0019
espF	-1.61	0.00231
yhck	-1.61	0.05
spfA	-1.61	0.00155
xasA	-1.63	0.04
sepL	-1.63	0.00117
rrsE	-1.63	0.01
ptsG	-1.66	0.00000407
escI	-1.66	0.01
mokP	-1.67	0.01
abgT	-1.68	0.04
escN	-1.69	0.0000174
cesD	-1.7	0.000775
espJ	-1.71	0.000591
rrsD	-1.71	0.006
sepQ	-1.72	0.0000902
escF	-1.72	0.00782
rrsB	-1.74	0.00216
map	-1.74	0.000582
tkkB	-1.76	0.00121
lifA	-1.77	0.03
tir	-1.78	0.00000692
osmC	-1.79	0.0000687
escC	-1.8	0.0000001
espX	-1.81	0.00149
pyrI	-1.82	0.00268
cesF	-1.82	0.00867
ysgA	-1.83	0.000126
poxB	-1.84	0.04
espL2	-1.87	0.00881
nleB	-1.89	0.02
orf29	-1.89	0.000106
rrfF	-1.93	0.00827

katE	-1.93	0.04
espW	-1.99	4.08E-09
rrfG	-2	0.00206
cesT	-2.02	4.63E-08
Z2063	-2.02	0.0000147
escE	-2.03	0.000533
Z5138	-2.04	0.0000436
yjcO	-2.13	0.00135
cesD2	-2.13	1.01E-11
manZ	-2.16	8.56E-13
espD	-2.18	5.84E-08
nleA	-2.2	0.0000411
manY	-2.21	1.69E-14
manX	-2.29	4.59E-19
espA	-2.32	4.26E-10
eae	-2.34	0
rorf1	-2.34	0.02
espB	-2.36	5.06E-10
fruA	-2.44	0.00000123
grlA	-2.45	0.00000008
rcaA	-2.47	1.67E-08
rrlG	-2.53	0.00527
yneB	-2.54	0.0047
ssrS	-2.57	0.000106
cpsB	-2.74	0.00827
ffs	-2.8	0.03
wzc	-2.97	0.03
fruB	-3.07	0.0000147
yghX	-3.51	0.00607
fruK	-3.59	0.000538
wcaH	-3.8	0.04
wcaG	-3.83	0.000000108
yjbE	-3.93	0.04
wcaD	-3.94	0.000563
wcaE	-3.98	0.00704
gmd	-5.04	5.22E-16
yebV	-5.89	0.02
wcaI	-6.07	1.64E-08
wcaC	-10.12	0.01
cpsG	-12.12	0.00000259
yjbF	-43.7	0.00554

Table S7: Genes upregulated in the presence of Aurodox

Gene	Fold Change	P value
<i>yheN</i>	1.51	0.00000166
<i>Z2005</i>	1.52	0.00000151
<i>yafH</i>	1.53	0.00000191
<i>pyrF</i>	1.53	0.00000211
<i>yqiB</i>	1.53	0.00000142
<i>trmA</i>	1.57	0.00000173
<i>yegQ</i>	1.58	0.00000195
<i>Z4370</i>	1.58	0.00000284
<i>sapA</i>	1.59	0.00000169
<i>hemA</i>	1.59	0.00000443
<i>yfhJ</i>	1.6	0.00000159
<i>folX</i>	1.6	0.00000145
<i>gabP</i>	1.61	0.0000134
<i>yfcl</i>	1.61	0.00000143
<i>mdaA</i>	1.61	0.0000014
<i>yliG</i>	1.61	0.00000227
<i>stpA</i>	1.62	0.00000146
<i>yhiW</i>	1.62	0.00000157
<i>ycaD</i>	1.62	0.00000115
<i>bcr</i>	1.63	0.00000205
<i>terC</i>	1.63	0.00000125
<i>ydeA</i>	1.65	0.00000243
<i>yafS</i>	1.67	0.00000161
<i>yccJ</i>	1.67	0.00000161
<i>abc</i>	1.67	0.00000269
<i>hypF</i>	1.68	0.00000127
<i>pheA</i>	1.69	0.00000154
<i>ygaF</i>	1.69	0.0000126
<i>yfbS</i>	1.7	0.00000188
<i>yfhE</i>	1.71	0.0000069
<i>leuC</i>	1.71	0.00000764
<i>pheP</i>	1.72	0.0000026
<i>yedV</i>	1.72	0.00000183
<i>leuB</i>	1.73	0.00000588
<i>ycgN</i>	1.73	0.00000112
<i>ydcP</i>	1.75	0.00000323
<i>fadB</i>	1.75	0.00000154
<i>nrdD</i>	1.76	0.000000974
<i>ygaT</i>	1.77	0.0000152
<i>sodB</i>	1.78	0.00000114
<i>fimB</i>	1.78	0.00000164
<i>trpC</i>	1.78	0.00000712
<i>bigA</i>	1.8	0.00000249
<i>prpE</i>	1.81	0.00000134

<i>yieP</i>	1.81	0.00000165
<i>leuD</i>	1.81	0.00000392
Z2806	1.82	0.0000014
<i>yfcD</i>	1.83	0.00000279
<i>yciA</i>	1.84	0.00000161
<i>narQ</i>	1.85	0.00000125
<i>acrD</i>	1.85	0.00000109
<i>ubiX</i>	1.85	0.00000217
<i>leuA</i>	1.89	0.00000923
Z4832	1.91	0.00000209
Z2491	1.96	0.0000022
<i>espR</i>	1.99	0.000000894
<i>yjhS</i>	2	0.00000103
<i>ycdZ</i>	2.02	0.00000163
<i>ycfS</i>	2.03	0.00000321
Z4833	2.11	0.00000233
<i>yadB</i>	2.12	0.00000143
<i>yhfC</i>	2.18	0.000005
<i>trpB</i>	2.25	0.0000161
<i>trpA</i>	2.27	0.0000104
<i>phoE</i>	2.37	0.000000808
Z0701	2.39	0.000000646
<i>ykgF</i>	2.4	0.000000647
<i>frdB</i>	2.43	0.000000755
<i>metF</i>	2.59	0.00000174
<i>yjcZ</i>	2.63	0.000000653
<i>torR</i>	2.65	0.000000871
<i>ebgR</i>	2.9	0.00000124
<i>yjiY</i>	2.96	0.00000328
<i>aldH</i>	3	0.0000013
<i>yafO</i>	3	0.00000055
<i>yliF</i>	3	0.00000055
<i>ymdF</i>	3.14	0.000000991
<i>hcaR</i>	3.2	0.000000882
Z3235	3.22	0.000000609
Z1644	3.27	0.00000105
<i>yfhH</i>	3.29	0.000000774
<i>bssR</i>	3.39	0.00000172
<i>mtr</i>	3.66	0.0000141
<i>CII</i>	4.01	0.000000447
<i>narJ</i>	4.19	0.000000679
<i>ybiH</i>	4.93	0.00000108
<i>trpE_1</i>	5.23	0.00000223
<i>dicB</i>	5.62	0.000000395
<i>prpR</i>	5.62	0.000000395
Z2986	5.63	0.000000397
<i>trpD</i>	6.05	0.00000744
<i>hycA</i>	6.27	0.000000452
<i>yaeJ</i>	6.28	0.00000111
Z4398	6.28	0.000000452

<i>yjgZ</i>	8.26	0.00000062
<i>napC</i>	8.97	0.000000682
<i>ydfZ</i>	9.64	0.000000739
<i>torD</i>	10.09	0.00000025
<i>torA</i>	13.4	0.0000104
<i>sorA</i>	16.27	0.000000344
<i>torC</i>	18.24	0.000000365
<i>Z6041</i>	18.81	0.000000401
<i>cmtA</i>	18.84	0.000000402
<i>ecpD</i>	33.8	0.000000739

Figure S1: Effect of Aurodox on *ler* expression in EPEC.

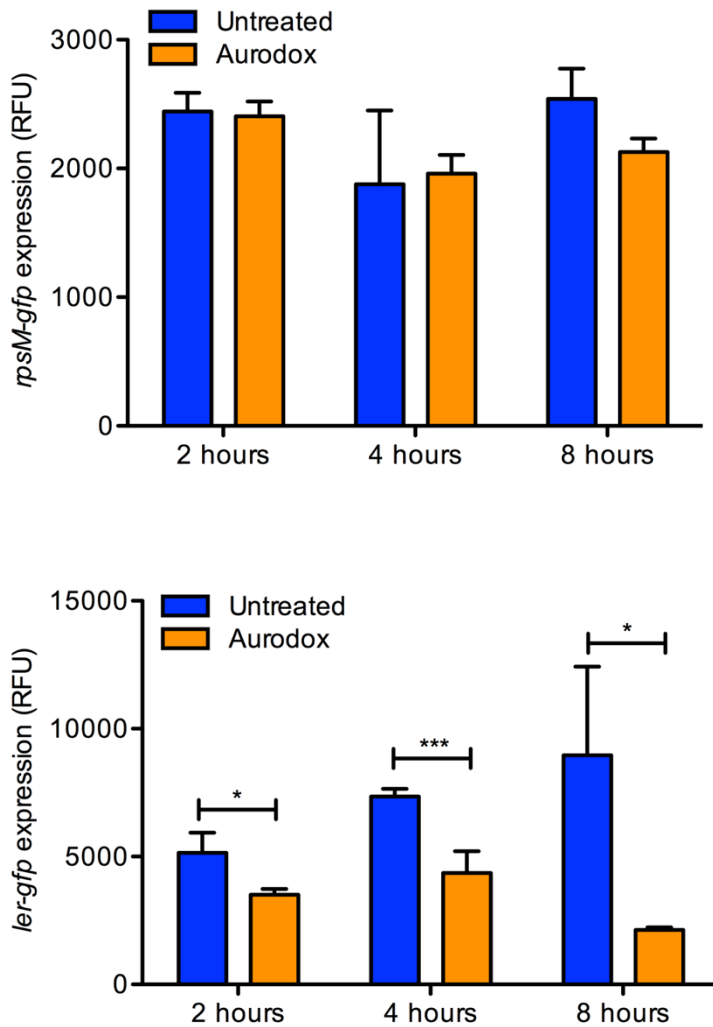


Figure S1: Effect of Aurodox on expression of *ler* compared to housekeeping gene *rpsM* in EPEC. EPEC transformed with *pler-gfp/prpsM-gfp* was cultured in the presence or absence of 6 μ M Aurodox as indicated, $n = 3$. Error bars plotted are equivalent to the standard deviation from the mean. Normalised relative fluorescence values (RFU) were calculated by dividing the raw fluorescence value by the Optical Density (600nm). No changes in RpsM expression were statistically significant. Reduction in *ler* expression at all time points was statistically significant ($P = 0.02, 0.004$ and 0.025 respectively).

Supplementary References

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