

Table S1 Average coverage of sequencing

Treatment	Clone ID	Average coverage (×)		
		NC_003197	AYO_46279	CP003387
DMSO	1	18.4	297	106
	2	30.3	468	178
	3	31.9	506	177
	4	20.8	332	109
	5	30.9	513	185
AF-2	6	34.2	550	198
	7	37.1	586	202
	8	42.7	790	244
	9	31.4	469	154
	10	37.2	575	209

Table S2 Base substitutions found in TA100 with
Salmonella typhimurium strain LT2 as the reference

Reference Position	Gene	Site	Mutation	Amino Acid Change
180034	aceF	1117	C→G	Arg373Gly
180035	aceF	1118	G→C	Arg373Pro
184305	yacH	1164	C→G	
184306	yacH	1163	G→C	Thr388Arg
288835			C→T	
288843			C→A	
288853			C→T	
608856	fimH	182	G→C	Gly61Ala
1016587	ybjD	728	C→G	Thr243Arg
1016588	ybjD	729	G→C	
1149982	rlmL	99	T→G	
1333325			C→A	
1439295	ydiF	169	T→G	Thr57Pro
1503292	ydhE	44	C→G	Arg15Pro
1503293	ydhE	43	G→C	Arg15Gly
1520176	slyA	291	C→G	Asp97Glu
1520177	slyA	292	G→C	Ala98Pro
1536627	ydgJ	247	C→G	Arg83Gly
1536628	ydgJ	248	G→C	Arg83Pro
1618053	STM1542	293	C→A	Cys98Phe
1715973	trg	1532	C→G	Arg511Pro
1715974	trg	1531	G→C	Arg511Gly
1719510			C→A	
1841404			G→A	
1889923	STM1791	454	C→T	Pro152Ser
2107131	cbiG	649	G→A	Pro217Ser
2329655	yejM	736	T→A	Tyr246Asn
2365718	ompC	862	C→T	Glu288Lys
2427979	nuoL	1524	C→G	
2500654	fadI	909	C→G	
2500655	fadI	908	G→C	Thr303Arg
2537941	yfeH	156	C→G	Asn52Lys
2537942	yfeH	157	G→C	Val53Leu
2550665	yfeK	78	C→G	Asn26Lys
2550666	yfeK	79	G→C	Val27Leu
2658746	yfgB	1118	G→A	Thr373Ile

Table S2 continue

2661659	STM2528	636	G→C	His212Gln
2996778	hycC	1596	C→G	
2996779	hycC	1595	G→C	Ala532Gly
3066057	rpoS	430	T→C	Thr144Ala
3123348	sdaB	1230	C→G	
3123349	sdaB	1231	G→C	Val411Leu
3154019	recC	2065	C→G	Val689Leu
3154020	recC	2064	G→C	His688Gln
3219132	ubiH	512	C→G	Arg171Pro
3219133	ubiH	511	G→C	Arg171Gly
3325121	yqhD	985	G→A	Ala329Thr
3475986	murA	169	G→T	Leu57Met
3501187	yhcG	570	G→A	
3908141	rfaC	845	C→A	Thr282Lys
4350855			C→G	
4350856			A→C	
4384227	hemE	83	G→A	Arg28Gln
4631400	rpsR	166	C→G	Arg56Gly
4631401	rpsR	167	G→C	Arg56Pro
4644993	ytfL	27	G→A	
4832867	smp	241	C→G	Val81Leu
4832868	smp	240	G→C	His80Gln

Table S3 Small deletions and insertions found in TA100 with Salmonella typhimurium strain LT2 as the reference

Reference Position	Variation Type	Length	Reference	Allele Variations	Coding Region Change	Amino Acid Change
220825	Insertion	1	-	C		
510551	Insertion	1	-	C		
520412	Insertion	1	-	C	STM0461.1n:c.508_509insG	p.Ala170fs
840677	Insertion	2	--	CC	galE:c.921_922insGG	p.Arg308fs
1208419	Insertion	1	-	C		
1256606	Insertion	1	-	C		
1357017	Insertion	1	-	G	yeaL:c.391_392insC	p.Arg131fs
1430156	Insertion	1	-	C		
1435559	deletion	1	G	-		
1543817	Insertion	1	-	C	fumA:c.1630_1631insC	p.Gly544fs
1554187	Insertion	1	-	C		
1670338	Insertion	1	-	C		
1849369	Insertion	1	-	G	hnr:c.584_585insC	p.Asp195fs
1926894	Insertion	3	---	GCG	yoaE:c.1167_1168insCGC	p.Arg389_Ala390insArg
2191594	Insertion	1	-	C	wcaH:c.70_71insG	p.Ala24fs
2292160	Insertion	1	-	G	yeiG:c.718_719insG	p.Arg240fs
2518664	Insertion	1	T	-	glk:c.266delA	p.Asn89fs
2627556	Insertion	1	-	C		
2682822	Insertion	1	-	G		
2737592	Insertion	1	-	C	STM2589:c.3203_3204insG	p.Gly1068fs
2757549	Insertion	1	-	G	STM2609:c.485_486insC	p.Ala162fs
2834546	Insertion	1	-	C		
3001701	Insertion	3	---	GCG	hypD:c.343_344insGCG	p.Arg115delinsArgGly
3127649	deletion	1	G	-		
3253333	Insertion	1	-	G		
3613716	Insertion	1	-	G	yheU:c.6_7insG	p.Gly3fs
3657651	Insertion	3	---	CGC	pckA:c.1085_1086insCGC	p.Asp362delinsAspAla
3676854	Insertion	1	-	A		
3694176	Insertion	1	-	G		
4031934	Insertion	1	-	C		
4433284	Insertion	2	--	CG		
4459986	Insertion	1	-	C		
4606272	deletion	1	G	-		
4673420	Insertion	1	-	T		
4675815	Insertion	1	-	C		
4689234	Insertion	1	-	G	STM4447:c.533_534insG	p.Glu178fs