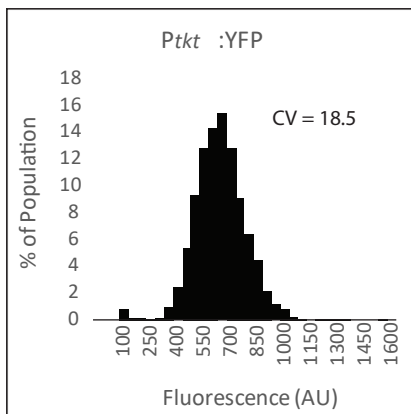
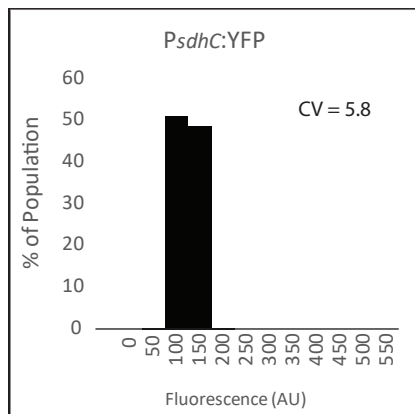
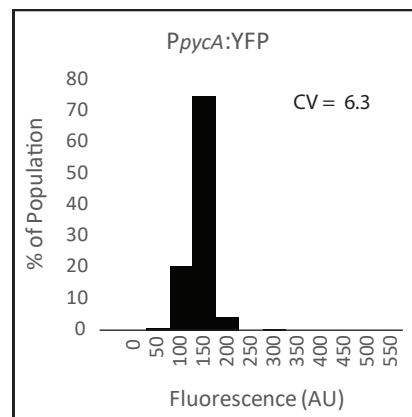
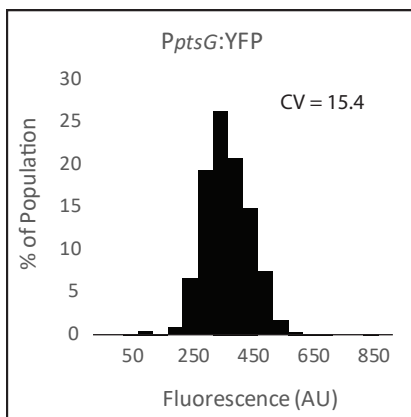
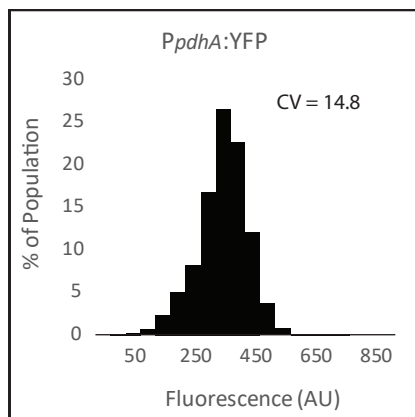
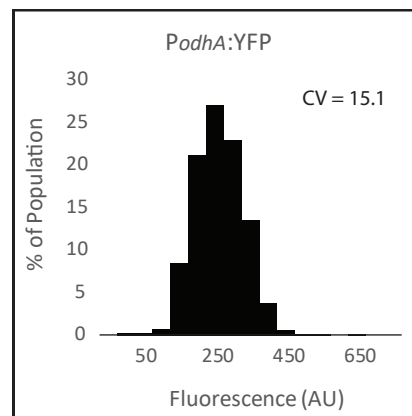
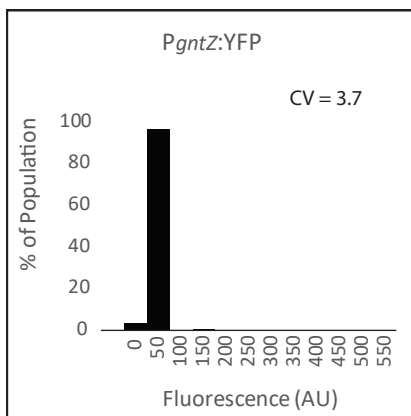
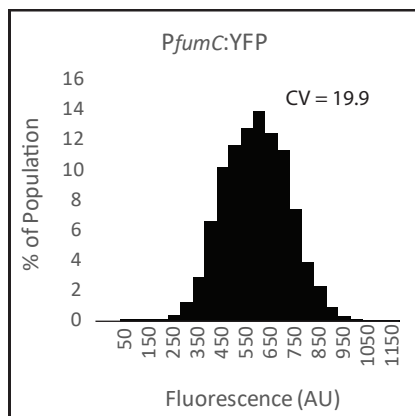
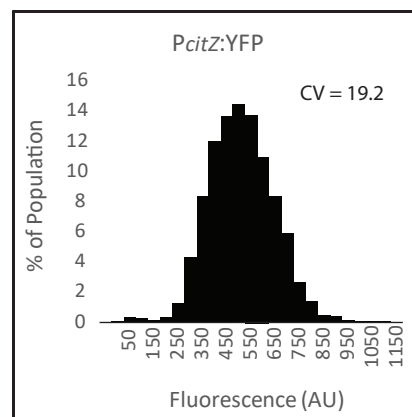
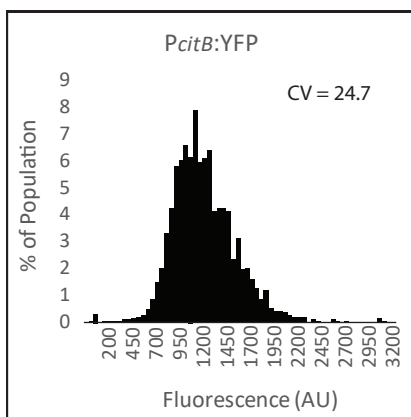
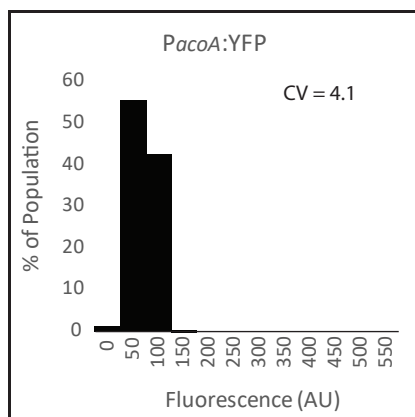
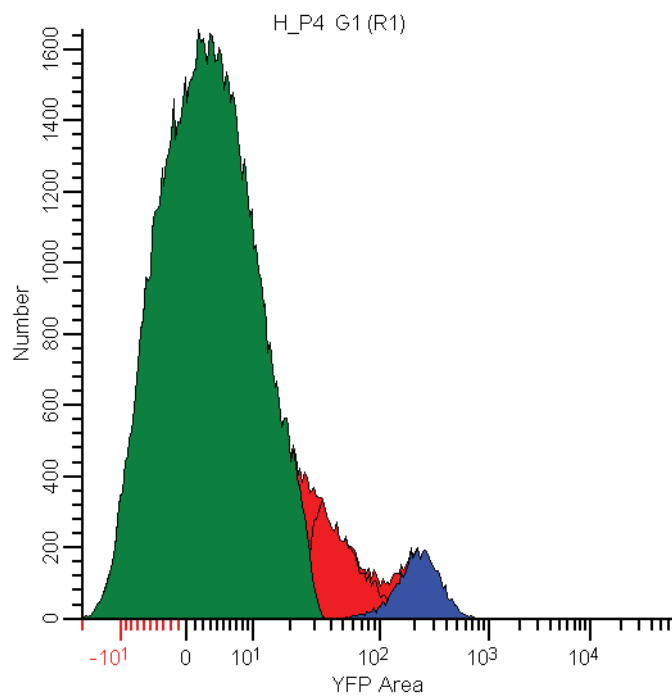
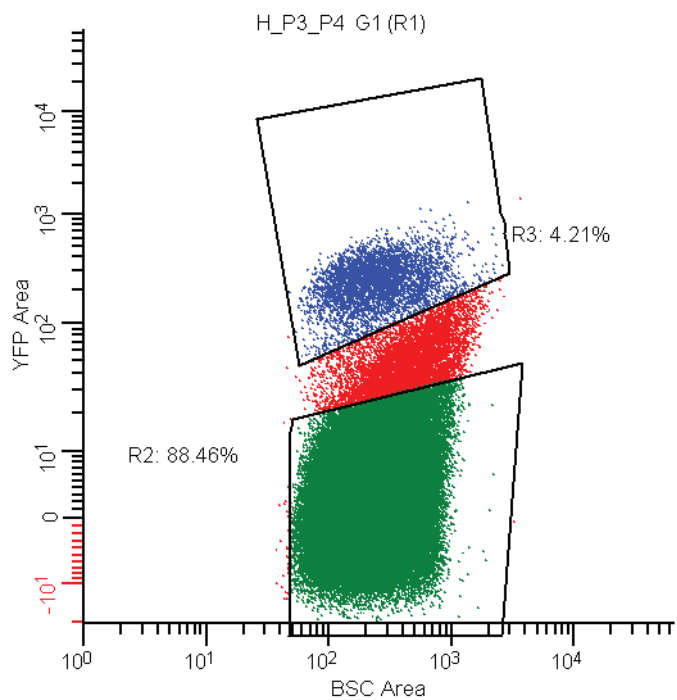


Supplementary Figure 1



Supplementary Figure 2



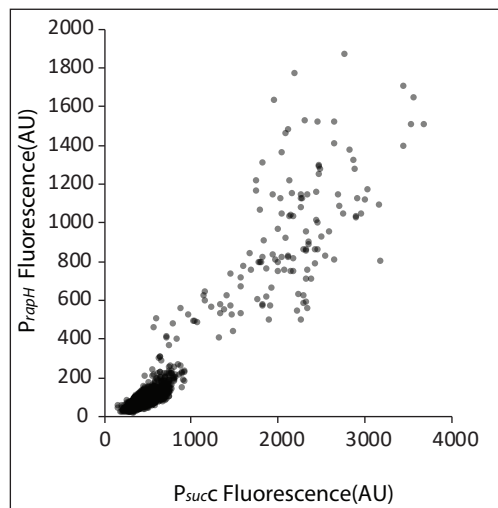
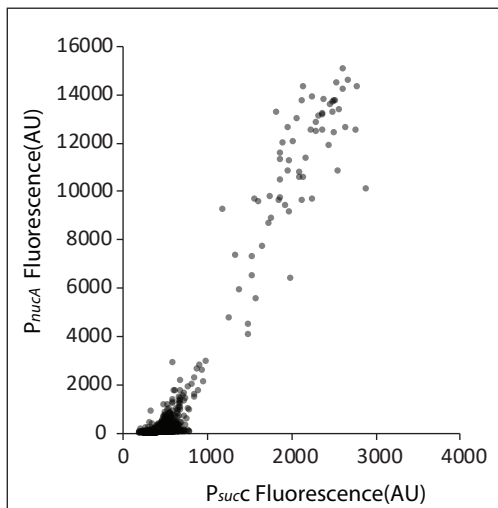
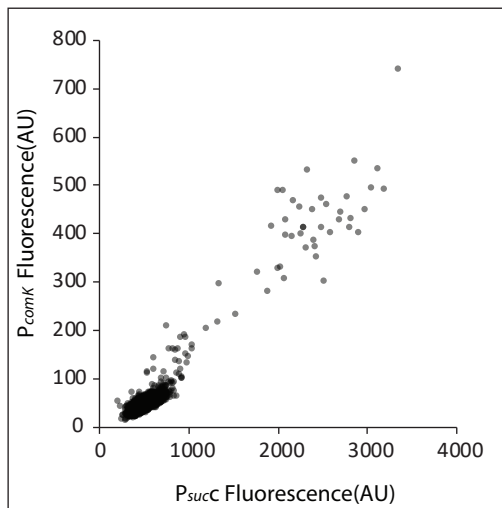
File: AR 12-07-11 Sample 2_unknown_111207

Population	Events	%Total	%Parent
Ungated	100004	100.00	100.00
G1	100000	99.99	99.99
G2	88457	88.45	88.45
G3	4210	4.21	4.21

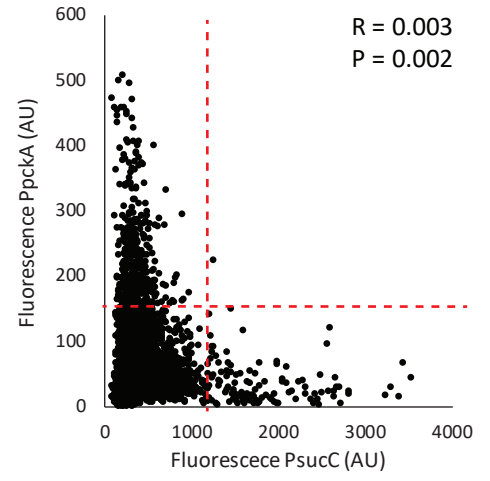
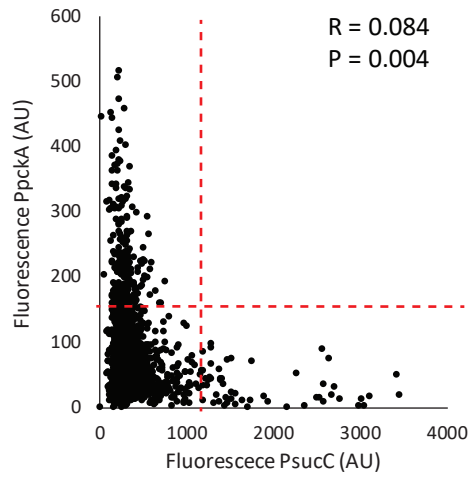
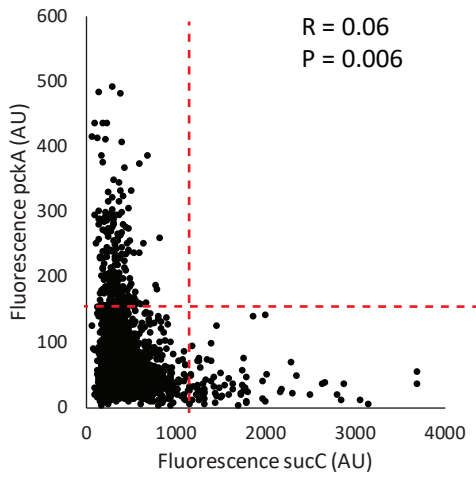
G2 = "Normal-sorted"

G3 = "P_{suc}C High sorted"

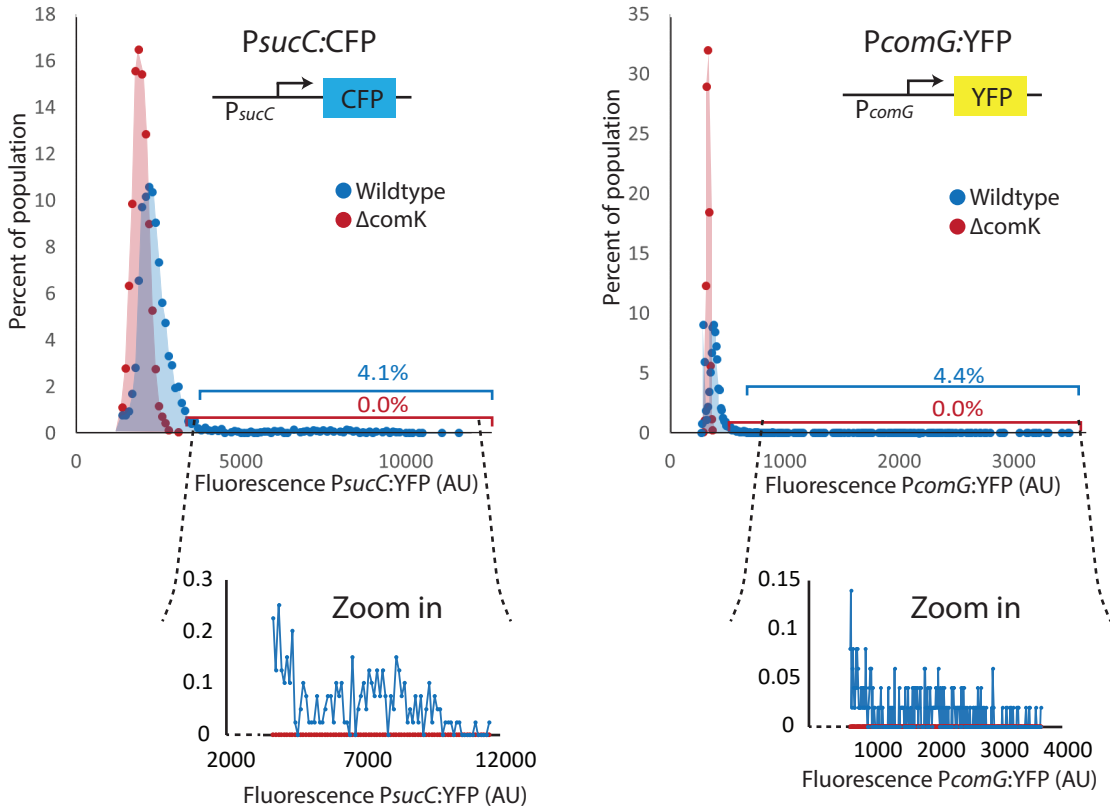
Supplementary Figure 3



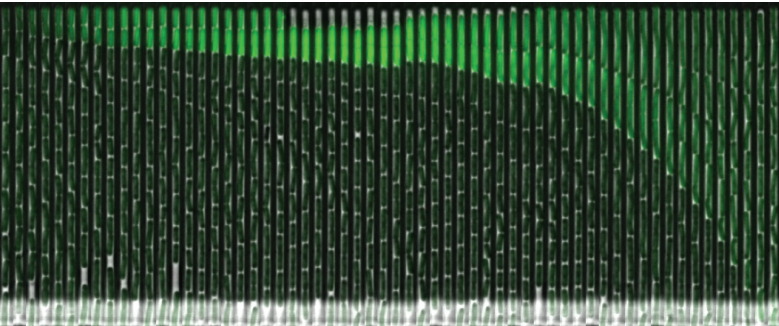
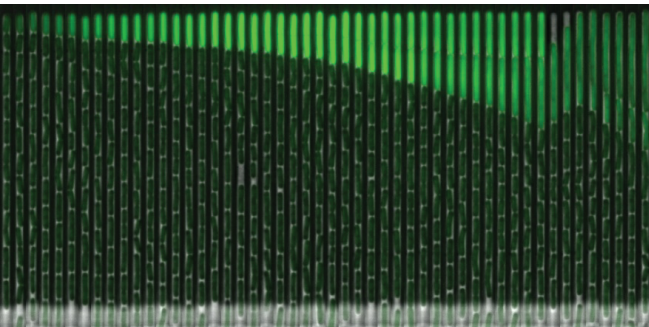
Supplementary Figure 4



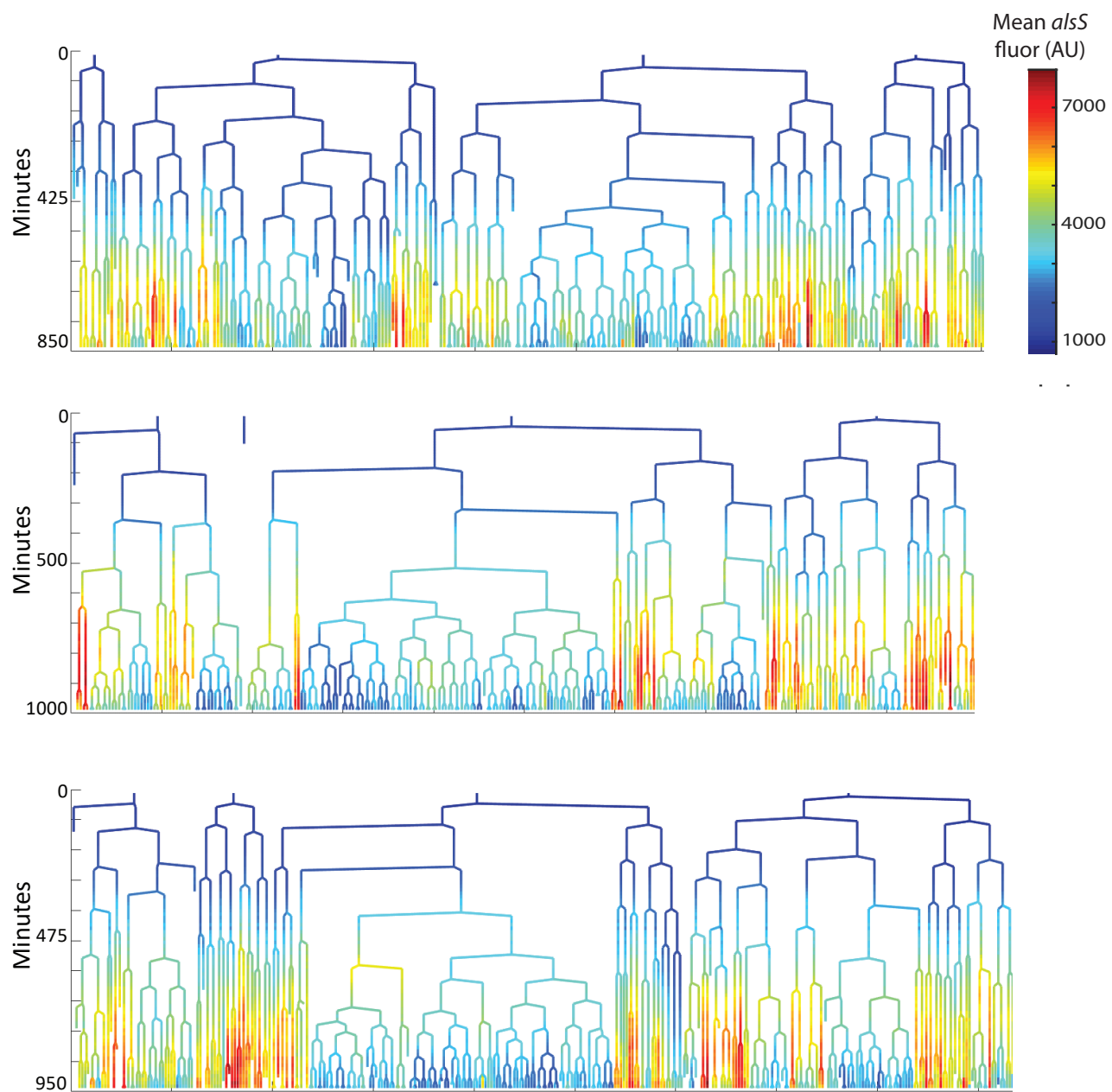
Supplementary Figure 5



Supplementary Figure 6

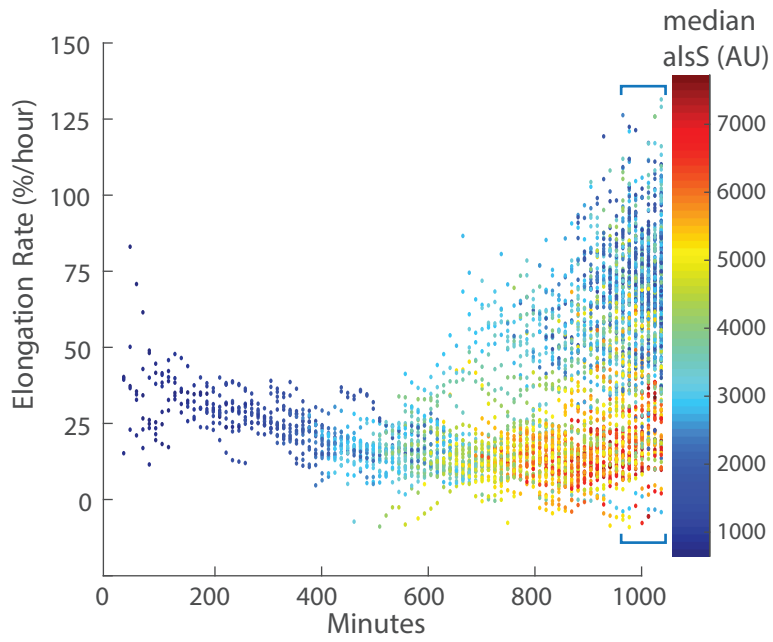


Supplementary Figure 7

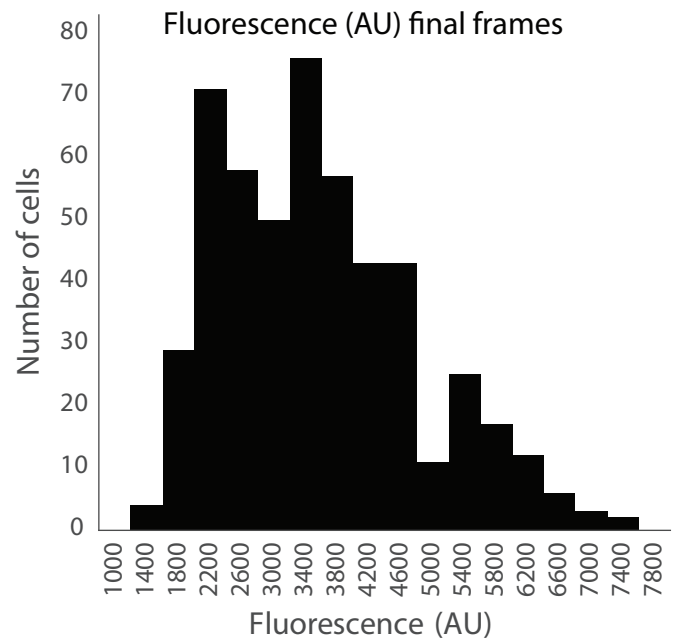


Supplementary Figure 8

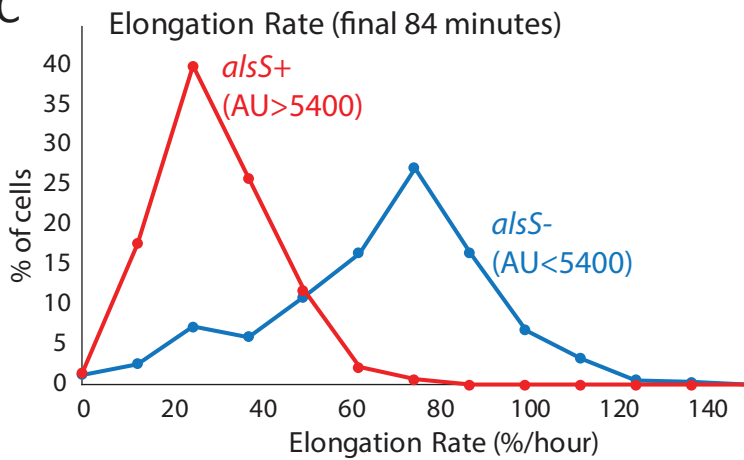
A



B



C



Strain #	Strain name	Genotype	Construction method	Physiological Characteristic and other notes	Reference / source
1	PY79	Prototrophic strain	Common lab strain		Youngman, P., Perkins, J.B. & Losick, R. 1984
2	JJB176	PB2; ppsb::PtrpE-mCh PhleoR	Lab stock - See Eldar et al. Nature 2009		Eldar A, Chary VK, Xenopoulos P, Fontes ME, Losón OC, Dworkin J, Piggot PJ, Elowitz MB. 2009
3	BS196	amyE::Physpank-lytF SpectR, PY79 background.	Genomic DNA fro DS3290 into PY79	non chaining strain (used to construct strains for motermachine movies)	DS3290 from Dan Kearns lab.
4	AZREdel1	PY 79 Δ alsS/D	BGSC BKE collection genomic DNA into PY79	deletion of acetoin producing genes	BGSC Bacillus collection
5	AZREdel2	PY79 Δ comK	BGSC BKE collection genomic DNA into PY79	deletion of genetic competence	BGSC Bacillus collection
6	AZRE1	JJB176; sacA::PsucC-yfp cmR	Plasmid (1) above into JJB176	YFP promoter reporter for sucC/D	This work
7	AZRE2	JJB176; sacA::PalsS-yfp cmR	Plasmid (2) above into JJB176	YFP promoter reporter for alsS/D	This work
8	AZRE3	JJB176; sacA::PacoA-yfp cmR	Plasmid (3) above into JJB176	YFP promoter reporter for acoA/B/C	This work
9	AZRE4	JJB176; sacA::PcitB-yfp cmR	Plasmid (4) above into JJB176	YFP promoter reporter for citB	This work
10	AZRE5	JJB176; sacA::PcitZ-yfp cmR	Plasmid (5) above into JJB177	YFP promoter reporter for citZ/icd/mdh	This work
11	AZRE6	JJB176; sacA::PfumC-yfp cmR	Plasmid (6) above into JJB177	YFP promoter reporter for fumC (citG)	This work

12	AZRE7	JJB176; sacA::PgntZ-yfp cmR	Plasmid (7) above into JJB177	YFP promoter reporter for gntRKPZ	This work
13	AZRE8	JJB176; sacA::PodhA-yfp cmR	Plasmid (8) above into JJB176	YFP promoter reporter for odhA/B	This work
14	AZRE9	JJB176; sacA::PpdhA-yfp cmR	Plasmid (9) above into JJB176	YFP promoter reporter for pdhA/B/C/D	This work
15	AZRE10	JJB176; sacA::PptsG-yfp cmR	Plasmid (10) above into JJB176	YFP promoter reporter for ptsG/H/I	This work
16	AZRE11	JJB176; sacA::PpycA-yfp cmR	Plasmid (11) above into JJB176	YFP promoter reporter for ftsW/pycA	This work
17	AZRE13	JJB176; sacA::PsdhC-yfp cmR	Plasmid (12) above into JJB176	YFP promoter reporter for sdhC/A/B	This work
18	AZRE14	JJB176; sacA::PtkA-yfp cmR	Plasmid (13) above into JJB176	YFP promoter reporter for tkt	This work
19	AZRE15	JJB176; sacA::Ppcka-yfp cmR	Plasmid (14) above into JJB176	YFP promoter reporter for pcka	This work
20	AZRE16	JJB176; sacA::PcomG-yfp cmR	Plasmid (15) above into JJB177	YFP promoter reporter for comG	This work
21	AZRE17	JJB176; sacA::PnucA-yfp cmR	Plasmid (16) above into JJB177	YFP promoter reporter for nucA	This work
22	AZRE18	JJB176; sacA::PrapH-yfp cmR	Plasmid (17) above into JJB177	YFP promoter reporter for rapH	This work
23	AZRE19	JJB176; sacA::PcomK-yfp cmR	Plasmid (17) above into JJB177	YFP promoter reporter for comK	This work
24	AZRE20	AZRE1; Δ comK	genomic DNA from AZREdel2 into AZRE1	deletion of comK with fluorescence reporter for sucC	This work
25	AZRE21	AZRE16; Δ comK	genomic DNA from AZREdel2 into AZRE16	deletion of comK with fluorescence reporter for comG	This work

26	AZRE22	PB2; ppsb::PtrpE-mCh PhleoR, amyE::Physpank- lytF SpectR	genomic DNA from BS196 into JJB176	non-chaining strain with constitutive RFP reporter used for movie segmentation	This work
27	AZRE23	AZRE21; sacA::PsucC-yfp cmR	plasmid (1) into AZRE22	non-chaining strain used for PsucC mother machine movies	This work
28	AZRE24	AZRE21; sacA::PalsS-yfp cmR	plasmid (2) into AZRE22	non-chaining strain used for PalsS mother machine movies	This work
29	AZRE25	JJB176; amyE::PsucC-cfp specR	plasmid (18) into JJB176		This work
30	AZRE26	JJB176; amyE::PalsS-cfp specR	plasmid (19) into JJB176		This work
31	AZRE27	AZRE25; sacA::PcomG-yfp cmR	Genomic DNA (AZRE16) into AZRE25	2 reporter strain for comG and sucC	This work
32	AZRE28	AZRE25; sacA::PcomK-yfp cmR	Genomic DNA (AZRE19) into AZRE25	2 reporter strain for comK and sucC	This work
33	AZRE29	AZRE25; sacA::PrapH-yfp cmR	Genomic DNA (AZRE18) into AZRE25	2 reporter strain for rapH and sucC	This work
34	AZRE30	AZRE25; sacA::PnucA-yfp cmR	Genomic DNA (AZRE17) into AZRE25	2 reporter strain for nuCA and sucC	This work
35	AZRE31	AZRE25; sacA::Ppcka-yfp cmR	Genomic DNA (AZRE15) into AZRE25	2 reporter strain for pcka and sucC	This work
36	AZRE32	AZRE27; Δ comK	Genomic DNA (AZREdel2) into AZRE27	2 reporter strain for comG and sucC with comK deletion	This work

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywfM	1039.76	64.9314	-4.00119	-15.9799	5.00E-05	0.000541	yes
comEA	455.242	30.8855	-3.88163	-14.6287	5.00E-05	0.000541	yes
ydeE	27.7838	1.92265	-3.85307	-9.97327	5.00E-05	0.000541	yes
comGA	1234.72	88.7467	-3.79835	-15.0813	5.00E-05	0.000541	yes
comER	128.126	9.33183	-3.77926	-13.4502	5.00E-05	0.000541	yes
cysL	359.231	27.6437	-3.69989	-13.8555	5.00E-05	0.000541	yes
comFC	197.191	15.5118	-3.66816	-10.8336	5.00E-05	0.000541	yes
ssbB	2298.59	183.662	-3.64563	-13.7692	5.00E-05	0.000541	yes
comFB	597.302	48.5213	-3.62177	-8.55611	5.00E-05	0.000541	yes
lipL	327.945	26.9775	-3.60363	-13.5402	5.00E-05	0.000541	yes
comFA	226.99	18.9108	-3.58535	-13.4701	5.00E-05	0.000541	yes
maf	627.114	52.5204	-3.57778	-13.4335	5.00E-05	0.000541	yes
comEB	219.48	18.9629	-3.53284	-12.9476	5.00E-05	0.000541	yes
comGB	549.288	48.1125	-3.51308	-13.5514	5.00E-05	0.000541	yes
coiA	12.668	1.12146	-3.49774	-8.43354	5.00E-05	0.000541	yes
comGD	474.702	42.8653	-3.46914	-7.50482	5.00E-05	0.000541	yes
ybdK	218.626	20.0358	-3.44781	-13.2154	5.00E-05	0.000541	yes
comGC	754.378	77.8975	-3.27564	-5.96845	5.00E-05	0.000541	yes
cwlJ	136.113	14.7701	-3.20406	-10.4176	5.00E-05	0.000541	yes
rapH	443.959	52.9302	-3.06826	-11.5709	5.00E-05	0.000541	yes
radC	280.359	33.4645	-3.06657	-11.9709	5.00E-05	0.000541	yes
med	57.9287	6.96087	-3.05694	-10.7107	5.00E-05	0.000541	yes
comGE	841.508	101.255	-3.05498	-7.28545	5.00E-05	0.000541	yes
sacX	25.5097	3.22108	-2.98543	-9.90935	5.00E-05	0.000541	yes
comC	138.676	17.8975	-2.95389	-11.3442	5.00E-05	0.000541	yes
ydeC	5.99679	0.809302	-2.88944	-5.27552	5.00E-05	0.000541	yes
hxIR	157.418	22.304	-2.81923	-9.24866	5.00E-05	0.000541	yes
hxIA	76.8043	10.9232	-2.81379	-9.65197	5.00E-05	0.000541	yes
hxIB	82.3352	11.8009	-2.80261	-9.44087	5.00E-05	0.000541	yes
yckA	13.0086	1.98789	-2.71016	-6.09406	5.00E-05	0.000541	yes
dinB	26.6226	4.17514	-2.67275	-6.797	5.00E-05	0.000541	yes
comGF	550.022	95.3113	-2.52877	-9.99312	5.00E-05	0.000541	yes
yvyF	366.704	67.836	-2.43449	-9.64192	5.00E-05	0.000541	yes
comZ	253.434	47.8843	-2.40398	-5.88188	5.00E-05	0.000541	yes
recA	189.19	36.8014	-2.362	-9.26561	5.00E-05	0.000541	yes
nin	196.309	38.9199	-2.33454	-8.70138	5.00E-05	0.000541	yes
yvyG	316.225	62.8094	-2.3319	-9.29179	5.00E-05	0.000541	yes
yckB	22.6411	4.67187	-2.27687	-7.23202	5.00E-05	0.000541	yes
flgM	503.679	105.652	-2.25318	-8.42297	5.00E-05	0.000541	yes
yviA	50.0073	10.5138	-2.24985	-8.20951	5.00E-05	0.000541	yes
yndK	45.2452	9.70191	-2.22142	-5.86401	5.00E-05	0.000541	yes
nucA	439.964	94.5699	-2.21793	-8.82789	5.00E-05	0.000541	yes
ywpJ	69.7982	15.149	-2.20397	-8.50446	5.00E-05	0.000541	yes
yviE	38.2715	8.48071	-2.17401	-6.91235	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yckC	33.3864	7.47895	-2.15835	-6.01264	5.00E-05	0.000541	yes
yckD	114.242	25.8348	-2.1447	-6.91869	5.00E-05	0.000541	yes
yndJ	23.5029	5.34028	-2.13785	-7.39969	5.00E-05	0.000541	yes
jag	189.854	43.6302	-2.12149	-6.48602	5.00E-05	0.000541	yes
flgK	228.329	54.1075	-2.07722	-7.87523	5.00E-05	0.000541	yes
comEC	26.3987	6.28179	-2.07122	-8.16785	5.00E-05	0.000541	yes
oxdC	5.3969	1.30919	-2.04345	-4.90644	5.00E-05	0.000541	yes
pta	229.489	56.358	-2.02573	-7.86575	5.00E-05	0.000541	yes
flgL	235.075	58.1416	-2.01548	-7.90934	5.00E-05	0.000541	yes
yhzC	187.837	47.313	-1.98917	-5.81335	5.00E-05	0.000541	yes
ywtF	53.5113	14.6882	-1.86519	-7.28557	5.00E-05	0.000541	yes
comGG	361.416	100.34	-1.84876	-7.38081	5.00E-05	0.000541	yes
aroC	22.6776	6.67345	-1.76477	-5.77267	5.00E-05	0.000541	yes
bdbD	84.121	26.9318	-1.64316	-6.46415	5.00E-05	0.000541	yes
yqzE	174.336	57.0506	-1.61156	-3.71416	5.00E-05	0.000541	yes
yqeF	30.7946	10.5905	-1.53991	-5.39105	5.00E-05	0.000541	yes
yhcE	10.7067	3.69761	-1.53385	-4.21815	5.00E-05	0.000541	yes
comK	99.4248	34.6326	-1.52148	-5.98981	5.00E-05	0.000541	yes
fliW	20.689	7.28563	-1.50574	-3.65923	5.00E-05	0.000541	yes
ycbP	256.193	92.9485	-1.46272	-5.83834	5.00E-05	0.000541	yes
topA	41.8311	15.2397	-1.45675	-5.87205	5.00E-05	0.000541	yes
mtlR	2.56178	1.1548	-1.1495	-3.10627	5.00E-05	0.000541	yes
bdbC	41.2473	19.4236	-1.08649	-3.5098	5.00E-05	0.000541	yes
rnpA	68.9106	33.6578	-1.03379	-3.46651	5.00E-05	0.000541	yes
sucC	325.749	161.324	-1.0138	-3.80169	5.00E-05	0.000541	yes
mreB	85.6489	50.7401	-0.75531	-3.05962	5.00E-05	0.000541	yes
yndG	12.0243	6.86995	-0.80759	-2.54823	0.0005	0.004103	yes
yfhB	22.9053	12.6865	-0.85238	-3.18256	5.00E-05	0.000541	yes
pstS	8.69518	0.376289	-4.5303	-6.32059	5.00E-05	0.000541	yes
tcyK	13.2307	0.84775	-3.96411	-7.20245	5.00E-05	0.000541	yes
ybdM	143.125	9.2849	-3.94624	-12.3509	5.00E-05	0.000541	yes
htrA	94.0732	6.62709	-3.82734	-14.136	5.00E-05	0.000541	yes
ypbG	17.4868	1.23608	-3.82242	-8.01488	5.00E-05	0.000541	yes
htrB	110.507	7.95039	-3.79697	-14.2749	5.00E-05	0.000541	yes
yqjL	37.5666	3.15044	-3.57583	-10.0827	5.00E-05	0.000541	yes
tcyJ	6.24011	0.571741	-3.44814	-5.33103	5.00E-05	0.000541	yes
ycbR	229.757	23.1381	-3.31176	-12.8271	5.00E-05	0.000541	yes
ybcC	1.94238	0.199732	-3.28168	-5.67958	5.00E-05	0.000541	yes
ydeD	12.1276	1.25787	-3.26924	-7.55553	5.00E-05	0.000541	yes
sacY	58.3322	6.0703	-3.26445	-10.9088	5.00E-05	0.000541	yes
relQ	18.4362	2.02461	-3.18683	-7.05221	5.00E-05	0.000541	yes
maeA	168.006	18.8112	-3.15885	-11.9075	5.00E-05	0.000541	yes
ydaH	18.062	2.04066	-3.14585	-7.9888	5.00E-05	0.000541	yes
ycgB	28.7455	3.39941	-3.07998	-7.89347	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywrD	9.56296	1.13413	-3.07587	-8.26406	5.00E-05	0.000541	yes
tlpC	199.454	24.5145	-3.02435	-11.4481	5.00E-05	0.000541	yes
yebC	96.1829	11.8478	-3.02117	-11.1503	5.00E-05	0.000541	yes
ydhB	33.3965	4.11444	-3.02093	-9.00676	5.00E-05	0.000541	yes
sacA	86.5302	11.0679	-2.96682	-11.3656	5.00E-05	0.000541	yes
ywrC	46.0462	5.95295	-2.95141	-8.03059	5.00E-05	0.000541	yes
yrzI	470.233	63.2465	-2.89432	-5.80507	5.00E-05	0.000541	yes
eglS	5.8145	0.786349	-2.88641	-6.75647	5.00E-05	0.000541	yes
ywdA	248.772	33.6656	-2.88548	-8.37947	5.00E-05	0.000541	yes
ywrB	14.2545	1.9806	-2.84741	-5.21339	5.00E-05	0.000541	yes
yxiP	34.7472	4.83356	-2.84574	-8.49546	5.00E-05	0.000541	yes
yndL	6.65548	0.959599	-2.79404	-5.03191	5.00E-05	0.000541	yes
ysdA	228.366	33.9344	-2.75053	-8.44134	5.00E-05	0.000541	yes
pbpI	8.29644	1.24636	-2.73477	-7.83102	5.00E-05	0.000541	yes
ywkB	141.801	21.4185	-2.72694	-10.7549	5.00E-05	0.000541	yes
ybzI	233.214	35.4125	-2.71933	-4.64391	5.00E-05	0.000541	yes
mrgA	47.0808	7.20038	-2.70899	-7.64736	5.00E-05	0.000541	yes
engD	402.028	62.5456	-2.68432	-10.267	5.00E-05	0.000541	yes
gmuD	1.74585	0.27338	-2.67495	-3.82506	5.00E-05	0.000541	yes
ndhF	3.32859	0.536569	-2.63308	-5.25253	5.00E-05	0.000541	yes
ykoY	25.214	4.06658	-2.63234	-8.4539	5.00E-05	0.000541	yes
sacB	2.48169	0.413275	-2.58615	-4.55541	5.00E-05	0.000541	yes
ggt	1.70152	0.288457	-2.5604	-4.23592	5.00E-05	0.000541	yes
tagC	3.71323	0.638725	-2.53941	-5.13081	5.00E-05	0.000541	yes
fosB	41.9288	7.30991	-2.52002	-6.92708	5.00E-05	0.000541	yes
cssR	21.0712	3.71523	-2.50375	-4.86383	5.00E-05	0.000541	yes
dprA	47.952	8.51949	-2.49275	-8.89287	5.00E-05	0.000541	yes
lrgA	20.6199	3.76163	-2.45461	-5.38931	5.00E-05	0.000541	yes
cssS	19.0629	3.52253	-2.43608	-7.22209	5.00E-05	0.000541	yes
sigW	1401.75	259.516	-2.43334	-9.48291	5.00E-05	0.000541	yes
yneB	15.413	2.88204	-2.41899	-6.02177	5.00E-05	0.000541	yes
bglC	72.0407	13.4899	-2.41693	-9.59066	5.00E-05	0.000541	yes
ythB	4.36599	0.822022	-2.40906	-4.77578	5.00E-05	0.000541	yes
yueE	33.6017	6.44123	-2.38312	-6.90624	5.00E-05	0.000541	yes
amtB	9.82562	1.90279	-2.36843	-6.64403	5.00E-05	0.000541	yes
rbsA	3.64654	0.715831	-2.34884	-5.14093	5.00E-05	0.000541	yes
glcR	55.2842	10.8747	-2.3459	-8.42823	5.00E-05	0.000541	yes
zosA	4.46673	0.888271	-2.33015	-6.12857	5.00E-05	0.000541	yes
pucL	2.41406	0.483952	-2.31852	-4.12093	5.00E-05	0.000541	yes
disA	42.1163	8.77015	-2.26371	-8.45558	5.00E-05	0.000541	yes
yuzF	48.2991	10.0982	-2.25789	-3.88647	5.00E-05	0.000541	yes
yqjB	14.0226	2.94918	-2.24936	-5.04338	5.00E-05	0.000541	yes
yuaF	206.367	43.485	-2.24662	-8.87919	5.00E-05	0.000541	yes
spoVD	2.68394	0.575873	-2.22053	-5.03766	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
mntH	2.99982	0.651158	-2.2038	-4.3817	5.00E-05	0.000541	yes
yxjJ	182.522	40.2977	-2.1793	-6.75199	5.00E-05	0.000541	yes
isp	3.90864	0.868184	-2.17059	-4.19356	5.00E-05	0.000541	yes
lrgB	26.0725	5.8524	-2.15543	-6.73185	5.00E-05	0.000541	yes
rsiW	307.256	69.3767	-2.14692	-8.49651	5.00E-05	0.000541	yes
ysdB	104.175	24.1221	-2.11059	-7.20668	5.00E-05	0.000541	yes
radA	39.1582	9.15343	-2.09693	-8.15514	5.00E-05	0.000541	yes
yhel	14.3384	3.35926	-2.09367	-5.61434	5.00E-05	0.000541	yes
yebE	8.58095	2.02833	-2.08084	-3.958	5.00E-05	0.000541	yes
yuaG	59.4062	14.1306	-2.07179	-8.27756	5.00E-05	0.000541	yes
yflS	21.7362	5.22915	-2.05546	-7.41492	5.00E-05	0.000541	yes
nagZ	2.39027	0.576689	-2.05131	-4.59747	5.00E-05	0.000541	yes
copB	2.79642	0.677122	-2.04609	-4.99704	5.00E-05	0.000541	yes
hemQ	70.9845	17.2104	-2.04423	-7.86678	5.00E-05	0.000541	yes
yjzH	140.639	34.5631	-2.02469	-4.37483	5.00E-05	0.000541	yes
xpaC	34.055	8.37475	-2.02375	-6.53307	5.00E-05	0.000541	yes
yhcF	32.3707	8.12969	-1.99342	-4.8808	5.00E-05	0.000541	yes
divIC	188.067	47.7078	-1.97895	-7.45719	5.00E-05	0.000541	yes
araA	2.11595	0.539274	-1.97222	-3.85998	5.00E-05	0.000541	yes
spolIB	5.73155	1.4635	-1.9695	-4.6165	5.00E-05	0.000541	yes
yppC	10.7021	2.75136	-1.95967	-5.54997	5.00E-05	0.000541	yes
yeaA	29.6144	7.61742	-1.95893	-6.99214	5.00E-05	0.000541	yes
fur	137.832	35.5956	-1.95314	-7.39937	5.00E-05	0.000541	yes
yxIF	9.96352	2.65373	-1.90864	-4.00921	5.00E-05	0.000541	yes
yrkO	3.42108	0.911319	-1.90842	-4.06299	5.00E-05	0.000541	yes
mntA	148.993	40.6538	-1.87378	-7.48721	5.00E-05	0.000541	yes
ythP	67.6877	18.7804	-1.84967	-5.1024	5.00E-05	0.000541	yes
dppD	12.4415	3.45687	-1.84763	-5.66517	5.00E-05	0.000541	yes
ybbJ	16.4357	4.61245	-1.83322	-4.4212	5.00E-05	0.000541	yes
ktrA	9.82093	2.78065	-1.82044	-4.37438	5.00E-05	0.000541	yes
katA	24.0157	6.88423	-1.80261	-6.8098	5.00E-05	0.000541	yes
putR	9.44088	2.72505	-1.79264	-5.49196	5.00E-05	0.000541	yes
ltaSA	74.6406	21.785	-1.77663	-7.05993	5.00E-05	0.000541	yes
trpE	16.9862	4.96022	-1.77589	-4.66232	5.00E-05	0.000541	yes
mreBH	3.50307	1.05003	-1.73819	-3.58109	5.00E-05	0.000541	yes
recU	62.8135	18.9496	-1.72891	-6.45692	5.00E-05	0.000541	yes
yxID	154.485	46.8268	-1.72206	-3.43245	5.00E-05	0.000541	yes
dppC	7.88361	2.4029	-1.71408	-4.58794	5.00E-05	0.000541	yes
yknU	2.39301	0.732761	-1.70741	-3.9248	5.00E-05	0.000541	yes
ypuA	24.8336	7.63144	-1.70227	-5.85855	5.00E-05	0.000541	yes
yuaI	146.105	45.1393	-1.69455	-6.71873	5.00E-05	0.000541	yes
ycgA	3.27314	1.01139	-1.69434	-3.99329	5.00E-05	0.000541	yes
ybbK	50.8849	15.7857	-1.68862	-5.56468	5.00E-05	0.000541	yes
ylbP	21.8882	6.8966	-1.6662	-4.54089	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yxnB	203.128	64.0712	-1.66464	-6.65746	5.00E-05	0.000541	yes
mntB	135.389	42.7939	-1.66163	-6.67727	5.00E-05	0.000541	yes
yhbJ	7.07107	2.2596	-1.64586	-3.65853	5.00E-05	0.000541	yes
yjbC	39.56	12.7799	-1.63016	-5.56209	5.00E-05	0.000541	yes
murB	36.1473	11.7595	-1.62006	-6.08636	5.00E-05	0.000541	yes
yhdY	4.10283	1.33478	-1.62001	-3.77924	5.00E-05	0.000541	yes
rapD	12.3051	4.00853	-1.61812	-5.16308	5.00E-05	0.000541	yes
licT	24.3496	7.94597	-1.6156	-5.55091	5.00E-05	0.000541	yes
mnmE	45.5801	14.9156	-1.61158	-6.44768	5.00E-05	0.000541	yes
lplD	2.72312	0.891309	-1.61126	-3.53088	5.00E-05	0.000541	yes
trnY-Lys	3629.59	1201.71	-1.59472	-3.53156	5.00E-05	0.000541	yes
yhbl	15.2277	5.0642	-1.5883	-3.79553	5.00E-05	0.000541	yes
rapA	260.051	87.6547	-1.56889	-5.79122	5.00E-05	0.000541	yes
yrrM	28.8912	9.75567	-1.56631	-5.2534	5.00E-05	0.000541	yes
yacl	63.0827	21.3166	-1.56527	-6.2772	5.00E-05	0.000541	yes
ycgQ	7.28227	2.46313	-1.56389	-3.96653	5.00E-05	0.000541	yes
yufL	7.60315	2.58558	-1.55611	-4.03461	5.00E-05	0.000541	yes
yjoB	21.3078	7.25413	-1.55451	-5.77194	5.00E-05	0.000541	yes
ybbC	3.10313	1.05766	-1.55285	-3.48907	5.00E-05	0.000541	yes
dppE	10.0367	3.4239	-1.55157	-5.30095	5.00E-05	0.000541	yes
ylbA	47.6631	16.351	-1.54349	-4.58119	5.00E-05	0.000541	yes
mntC	74.2554	26.1888	-1.50355	-4.91004	5.00E-05	0.000541	yes
ydjP	44.3663	15.6999	-1.49871	-5.73669	5.00E-05	0.000541	yes
perR	106.07	37.5872	-1.4967	-5.64759	5.00E-05	0.000541	yes
glnR	135.502	48.0273	-1.49638	-5.74004	5.00E-05	0.000541	yes
ywrE	34.0429	12.1604	-1.48517	-3.79726	5.00E-05	0.000541	yes
clpE	3.12595	1.12107	-1.47943	-4.08174	5.00E-05	0.000541	yes
kinD	29.7542	10.69	-1.47683	-5.85158	5.00E-05	0.000541	yes
hutP	33.245	11.9617	-1.47471	-4.4679	5.00E-05	0.000541	yes
yaaN	18.2131	6.55541	-1.47422	-5.2719	5.00E-05	0.000541	yes
aapA	8.63053	3.10978	-1.47264	-4.73541	5.00E-05	0.000541	yes
yxIE	27.0799	9.99239	-1.43832	-4.15741	5.00E-05	0.000541	yes
bcrC	14.1667	5.26538	-1.42789	-3.85741	5.00E-05	0.000541	yes
bgIH	7.68826	2.86014	-1.42657	-4.50427	5.00E-05	0.000541	yes
ymbB	192.805	71.893	-1.42322	-5.19131	5.00E-05	0.000541	yes
ybbF	3.32786	1.24656	-1.41665	-3.47074	5.00E-05	0.000541	yes
yheH	10.7574	4.03808	-1.41359	-3.99445	5.00E-05	0.000541	yes
yeel	91.6943	34.5769	-1.40702	-5.61866	5.00E-05	0.000541	yes
murG	23.5507	8.92217	-1.4003	-5.20721	5.00E-05	0.000541	yes
mecB	34.9288	13.4015	-1.38202	-4.73424	5.00E-05	0.000541	yes
mntD	56.9335	21.9548	-1.37474	-3.15262	5.00E-05	0.000541	yes
yoaF	115.88	45.1526	-1.35975	-4.51344	5.00E-05	0.000541	yes
yfhM	16.5778	6.48399	-1.3543	-3.31756	5.00E-05	0.000541	yes
murQ	12.2343	4.84435	-1.33656	-4.18359	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yqeZ	185.425	73.7854	-1.32943	-5.07719	5.00E-05	0.000541	yes
ywbF	15.3567	6.11457	-1.32854	-4.70147	5.00E-05	0.000541	yes
dctP	6.82373	2.73601	-1.31849	-3.96142	5.00E-05	0.000541	yes
ribE	25.0164	10.0655	-1.31345	-4.37408	5.00E-05	0.000541	yes
yrrN	33.1915	13.3805	-1.31068	-5.00931	5.00E-05	0.000541	yes
csbX	10.6906	4.35486	-1.29564	-4.37278	5.00E-05	0.000541	yes
ispD	32.8666	13.4393	-1.29017	-4.12595	5.00E-05	0.000541	yes
yhcA	4.62398	1.90275	-1.28105	-3.73406	5.00E-05	0.000541	yes
ydbO	6.13384	2.52881	-1.27833	-3.26214	5.00E-05	0.000541	yes
trpD	17.7596	7.38354	-1.26621	-2.91648	5.00E-05	0.000541	yes
yrrS	35.1756	14.7848	-1.25046	-4.58362	5.00E-05	0.000541	yes
yhdL	10.3614	4.35708	-1.24979	-3.43604	5.00E-05	0.000541	yes
yngC	37.0839	15.5962	-1.2496	-4.43267	5.00E-05	0.000541	yes
yxjI	39.8724	16.7808	-1.24858	-4.21422	5.00E-05	0.000541	yes
yfhL	96.7085	40.9709	-1.23904	-3.4269	5.00E-05	0.000541	yes
yfkA	7.90624	3.4032	-1.2161	-3.69358	5.00E-05	0.000541	yes
mhqR	40.8606	17.6081	-1.21447	-3.93353	5.00E-05	0.000541	yes
ilvE	36.21	15.8427	-1.19257	-4.70353	5.00E-05	0.000541	yes
bglP	5.38924	2.36264	-1.18968	-3.79555	5.00E-05	0.000541	yes
amhX	9.04404	3.99566	-1.17854	-3.74863	5.00E-05	0.000541	yes
yaaO	8.70359	3.86115	-1.17258	-3.4582	5.00E-05	0.000541	yes
ponA	32.3032	14.4215	-1.16345	-4.69605	5.00E-05	0.000541	yes
yqfB	158.966	71.7457	-1.14776	-4.55497	5.00E-05	0.000541	yes
yxzE	325.143	147.279	-1.14252	-3.74737	5.00E-05	0.000541	yes
trnI-Ala	47959.7	22160.5	-1.11383	-4.46164	5.00E-05	0.000541	yes
amyE	26.3262	12.2806	-1.10012	-4.41448	5.00E-05	0.000541	yes
yhcG	16.1444	7.5395	-1.09849	-3.46255	5.00E-05	0.000541	yes
dppB	10.0754	4.71489	-1.09555	-3.36726	5.00E-05	0.000541	yes
yhaZ	5.31825	2.49087	-1.0943	-2.96991	5.00E-05	0.000541	yes
ywqC	20.2386	9.48447	-1.09347	-3.00756	5.00E-05	0.000541	yes
menA	42.469	19.9649	-1.08894	-4.29817	5.00E-05	0.000541	yes
yceC	151.077	71.2819	-1.08367	-4.3709	5.00E-05	0.000541	yes
yqfA	143.737	68.2127	-1.07532	-4.30503	5.00E-05	0.000541	yes
yvqJ	23.8343	11.3135	-1.07499	-4.19815	5.00E-05	0.000541	yes
glpD	4.04729	1.92289	-1.07368	-3.12847	5.00E-05	0.000541	yes
yobJ	32.3087	15.4584	-1.06354	-4.05405	5.00E-05	0.000541	yes
yfnA	6.88887	3.29751	-1.06289	-3.38282	5.00E-05	0.000541	yes
tRNA-Ala	46217.3	22288.5	-1.05213	-4.21526	5.00E-05	0.000541	yes
hrcA	42.975	20.7504	-1.05036	-4.17308	5.00E-05	0.000541	yes
yerH	28.9299	13.9784	-1.04936	-4.13671	5.00E-05	0.000541	yes
yfmC	89.6538	43.4894	-1.0437	-4.20965	5.00E-05	0.000541	yes
ybbH	9.69893	4.7369	-1.03388	-3.08866	5.00E-05	0.000541	yes
trnJ-Ala	46920.9	23029.5	-1.02675	-4.12076	5.00E-05	0.000541	yes
pyrR	89.2958	44.0415	-1.01973	-4.03855	5.00E-05	0.000541	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
rodA	14.8131	7.32889	-1.01521	-3.69227	5.00E-05	0.000541	yes
trnO-Ala	46625.2	23160.8	-1.00943	-4.05031	5.00E-05	0.000541	yes
ybaR	11.4475	5.68745	-1.00918	-3.64423	5.00E-05	0.000541	yes
yqzC	44.1272	21.982	-1.00534	-2.91915	5.00E-05	0.000541	yes
rpmGB	1265.48	631.207	-1.0035	-3.60655	5.00E-05	0.000541	yes
ydzA	135.863	69.1709	-0.97392	-3.45754	5.00E-05	0.000541	yes
iseA	260.245	132.795	-0.97067	-3.922	5.00E-05	0.000541	yes
ribD	18.8139	9.62916	-0.96632	-3.59364	5.00E-05	0.000541	yes
pbpE	48.4996	24.909	-0.96131	-3.88066	5.00E-05	0.000541	yes
ydjO	296.589	152.645	-0.95828	-3.26118	5.00E-05	0.000541	yes
pps	2.80671	1.4762	-0.92699	-2.83451	5.00E-05	0.000541	yes
yvIB	52.5977	27.8632	-0.91664	-3.6931	5.00E-05	0.000541	yes
ribAB	25.437	13.5214	-0.91168	-3.58398	5.00E-05	0.000541	yes
racX	49.0113	26.3644	-0.89452	-3.49959	5.00E-05	0.000541	yes
yhxD	21.4044	11.5465	-0.89046	-3.28825	5.00E-05	0.000541	yes
ligA	16.6859	9.08021	-0.87783	-3.48152	5.00E-05	0.000541	yes
pepF	31.5223	17.2443	-0.87025	-3.51269	5.00E-05	0.000541	yes
yrro	24.9514	13.7059	-0.86433	-3.41184	5.00E-05	0.000541	yes
trnB-Ala	54138.4	29747.9	-0.86387	-3.46586	5.00E-05	0.000541	yes
nupN	20.7808	11.4665	-0.85782	-3.27288	5.00E-05	0.000541	yes
ydbl	20.5917	11.5057	-0.83971	-3.18573	5.00E-05	0.000541	yes
efeN	20.1379	11.2522	-0.8397	-3.2592	5.00E-05	0.000541	yes
mecA	34.2284	19.3044	-0.82627	-3.08401	5.00E-05	0.000541	yes
yusP	16.2329	9.19268	-0.82036	-2.90197	5.00E-05	0.000541	yes
ymfC	41.8676	23.891	-0.80937	-3.15956	5.00E-05	0.000541	yes
pyrP	27.5405	15.8456	-0.79747	-3.17117	5.00E-05	0.000541	yes
trmFO	11.6541	6.72722	-0.79276	-2.87297	5.00E-05	0.000541	yes
spoOM	167.835	97.7736	-0.77953	-3.13952	5.00E-05	0.000541	yes
yncM	26.3276	15.4159	-0.77216	-2.86903	5.00E-05	0.000541	yes
yceD	213.621	125.315	-0.7695	-3.11457	5.00E-05	0.000541	yes
trmF	21.0263	12.3421	-0.76861	-3.07733	5.00E-05	0.000541	yes
atpI	210.206	124.957	-0.75037	-3.01436	5.00E-05	0.000541	yes
dinG	15.5306	9.34715	-0.73251	-2.94948	5.00E-05	0.000541	yes
dnaA	37.0391	22.2954	-0.7323	-2.94882	5.00E-05	0.000541	yes
ydhK	9.92722	3.25373	-1.6093	-3.89881	0.0001	0.00102	yes
amiE	2.80204	0.850705	-1.71975	-3.72162	0.0001	0.00102	yes
cwlH	7.78614	0.413947	-4.23339	-5.56755	0.0001	0.00102	yes
holA	9.96161	4.99451	-0.99604	-3.20175	0.0001	0.00102	yes
mtlD	2.52983	0.754091	-1.74623	-3.35937	0.0001	0.00102	yes
pcrA	10.0704	6.09652	-0.72406	-2.82151	0.0001	0.00102	yes
sda	207.51	72.4657	-1.51781	-3.254	0.0001	0.00102	yes
ydfL	4.69982	1.64376	-1.5156	-3.27687	0.0001	0.00102	yes
yhjB	7.4548	3.94251	-0.91905	-2.63004	0.0001	0.00102	yes
yjzB	51.498	6.4129	-3.00547	-4.52797	0.0001	0.00102	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yneA	30.5084	2.41965	-3.65634	-5.03906	0.0001	0.00102	yes
yvaV	11.7065	5.10424	-1.19754	-3.0159	0.00015	0.001474	yes
aprX	2.47035	0.243793	-3.34099	-4.70003	0.00015	0.001474	yes
frlD	3.29141	0.946857	-1.79749	-3.31189	0.00015	0.001474	yes
hemA	22.2393	13.7578	-0.69286	-2.74506	0.00015	0.001474	yes
trnS-Lys	2963.38	910.455	-1.70259	-3.39077	0.00015	0.001474	yes
ycgR	3.45893	0.818698	-2.07892	-3.66899	0.00015	0.001474	yes
ydzV	16.3468	4.94439	-1.72514	-3.31081	0.00015	0.001474	yes
yhjA	198.227	119.657	-0.72825	-2.72684	0.00015	0.001474	yes
yusO	30.5204	7.89562	-1.95065	-3.21753	0.00015	0.001474	yes
yxIH	5.61924	1.9255	-1.54514	-3.02605	0.00015	0.001474	yes
licH	2.16929	0.671651	-1.69144	-3.23273	0.0002	0.001891	yes
lysC	19.2217	12.0947	-0.66836	-2.59794	0.0002	0.001891	yes
mta	4.94433	1.72475	-1.51939	-3.28123	0.0002	0.001891	yes
nasB	1.05347	0.18129	-2.53878	-3.95835	0.0002	0.001891	yes
phoB	1.75541	0.30208	-2.5388	-3.72806	0.0002	0.001891	yes
sigY	10.4975	1.93636	-2.43862	-3.36988	0.0002	0.001891	yes
ycgS	3.34471	0.976268	-1.77653	-3.27754	0.0002	0.001891	yes
yddT	5.68812	1.81601	-1.64718	-3.42677	0.0002	0.001891	yes
yheD	3.12384	0.299628	-3.38208	-4.47374	0.0002	0.001891	yes
yizB	19.6387	4.25234	-2.20737	-3.53629	0.0002	0.001891	yes
ythQ	28.6729	14.2755	-1.00614	-2.86272	0.0002	0.001891	yes
yxIB	14.8086	4.44937	-1.73476	-3.40641	0.0002	0.001891	yes
clpC	28.695	16.5832	-0.79108	-2.68146	0.00025	0.002266	yes
mtlA	2.30007	0.869878	-1.40279	-3.09717	0.00025	0.002266	yes
rbsB	3.09285	1.0151	-1.60731	-3.12159	0.00025	0.002266	yes
sbcC	8.44697	5.16702	-0.7091	-2.54971	0.00025	0.002266	yes
spxA	77.4896	48.9896	-0.66153	-2.49536	0.00025	0.002266	yes
trnS-Ser	2980.65	1517.48	-0.97395	-2.7488	0.00025	0.002266	yes
yusD	16.2532	5.6663	-1.52025	-3.04243	0.00025	0.002266	yes
yvgT	7.99769	3.46411	-1.2071	-2.85403	0.00025	0.002266	yes
ycsN	20.5866	12.5614	-0.71271	-2.65783	0.0003	0.002648	yes
mtlF	10.6948	4.05816	-1.39801	-2.94976	0.0003	0.002648	yes
pcrB	17.3784	9.98107	-0.80003	-2.61823	0.0003	0.002648	yes
yhaJ	6.41195	1.85131	-1.79222	-3.24239	0.0003	0.002648	yes
ypzK	51.4724	29.2334	-0.81618	-2.71893	0.0003	0.002648	yes
yqzG	17.2284	3.97318	-2.11642	-3.63475	0.0003	0.002648	yes
yvaF	8.62188	2.02993	-2.08657	-3.41096	0.0003	0.002648	yes
eag	15.673	7.37527	-1.08752	-2.73934	0.00035	0.002997	yes
oxaAA	64.1321	30.2865	-1.08237	-2.66189	0.00035	0.002997	yes
rbsC	2.85878	0.594689	-2.26519	-3.73721	0.00035	0.002997	yes
sigM	19.4821	5.46472	-1.83393	-3.29909	0.00035	0.002997	yes
ybfl	4.46207	1.15885	-1.94502	-3.17362	0.00035	0.002997	yes
yndH	14.394	4.28115	-1.7494	-2.67979	0.00035	0.002997	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
mreC	43.5139	25.628	-0.76376	-2.47485	0.0004	0.003356	yes
pucR	1.82236	0.655347	-1.47547	-3.07992	0.0004	0.003356	yes
yabR	165.761	104.064	-0.67164	-2.67327	0.0004	0.003356	yes
exoA	7.56162	3.75201	-1.01103	-2.6896	0.00045	0.003734	yes
ywfO	23.4751	14.9617	-0.64986	-2.5723	0.00045	0.003734	yes
ywoH	9.36421	3.11237	-1.58915	-2.97214	0.00045	0.003734	yes
mgtE	11.7461	7.42953	-0.66084	-2.44991	0.0005	0.004103	yes
ydiM	11.5181	4.02803	-1.51575	-2.90719	0.0005	0.004103	yes
pucK	1.62285	0.318581	-2.3488	-3.49231	0.00055	0.004455	yes
yhjD	17.4246	1.32006	-3.72245	-4.55589	0.00055	0.004455	yes
yitR	40.2661	19.1882	-1.06935	-2.7657	0.00055	0.004455	yes
yvIA	192.393	123.528	-0.63922	-2.52826	0.00055	0.004455	yes
yxiC	27.2201	10.1841	-1.41835	-2.74815	0.00055	0.004455	yes
yubF	170.687	106.469	-0.68091	-2.47245	0.0006	0.004797	yes
bacB	21.2145	11.5355	-0.87897	-2.40502	0.00065	0.005099	yes
gmuF	3.14923	0.919028	-1.77682	-2.91065	0.00065	0.005099	yes
yfkC	8.26723	4.67921	-0.82114	-2.38713	0.00065	0.005099	yes
yttB	3.29777	1.50679	-1.13001	-2.75323	0.00065	0.005099	yes
yuxJ	2.34211	0.853518	-1.45632	-2.95978	0.00065	0.005099	yes
gmuG	2.08445	0.690812	-1.5933	-2.8747	0.0007	0.005434	yes
ydeB	8.30456	3.12964	-1.4079	-2.79099	0.0007	0.005434	yes
ytml	5.83345	0.820482	-2.82981	-3.89952	0.0007	0.005434	yes
yugG	30.5848	18.0878	-0.7578	-2.55096	0.0007	0.005434	yes
ywrA	12.0045	1.21833	-3.3006	-4.45063	0.0007	0.005434	yes
yvrN	108.189	56.7442	-0.931	-2.43152	0.00075	0.005762	yes
gntP	10.2997	6.48975	-0.66637	-2.40566	0.00075	0.005762	yes
phrH	1344.74	163.039	-3.04404	-2.65596	0.00075	0.005762	yes
gbsA	2.31706	1.02466	-1.17716	-2.74074	0.0008	0.006096	yes
glpK	7.44469	4.62216	-0.68764	-2.35898	0.0008	0.006096	yes
udk	19.8328	11.6199	-0.77129	-2.54209	0.0008	0.006096	yes
efeU	13.5922	6.99695	-0.95798	-2.37968	0.00085	0.006412	yes
ykzT	145.083	50.2407	-1.52994	-2.91477	0.00085	0.006412	yes
yxbA	261.008	94.4953	-1.46578	-2.32872	0.00085	0.006412	yes
yuzO	133.674	46.0947	-1.53605	-2.93343	0.00095	0.00708	yes
yetF	4.08703	1.4186	-1.52659	-2.91006	0.00095	0.00708	yes
ytol	6.42789	3.79692	-0.75952	-2.39981	0.00095	0.00708	yes
ydeL	1.77658	0.670716	-1.40533	-2.78654	0.001	0.007379	yes
yxel	2.11153	0.526766	-2.00305	-3.10855	0.001	0.007379	yes
tmk	12.507	5.71361	-1.13026	-2.36129	0.0011	0.00807	yes
nagBB	16.5865	10.1923	-0.70253	-2.37032	0.00115	0.008371	yes
glpF	5.74062	3.03905	-0.91759	-2.35474	0.0012	0.008667	yes
ktrB	3.46557	1.84905	-0.90631	-2.39868	0.0012	0.008667	yes
ylaN	283.902	188.186	-0.59324	-2.34699	0.0012	0.008667	yes
sigH	85.26	56.547	-0.59242	-2.38655	0.00125	0.008924	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ypuD	11.8041	3.78379	-1.64139	-2.82188	0.00125	0.008924	yes
yufM	14.9284	7.45141	-1.00247	-2.36265	0.00125	0.008924	yes
yugI	130.195	87.638	-0.57104	-2.26056	0.00125	0.008924	yes
ybfO	18.7563	12.6186	-0.57183	-2.24963	0.0013	0.009246	yes
yugT	1.0912	0.351185	-1.63562	-2.77744	0.00135	0.009493	yes
yvaE	20.2492	7.25207	-1.4814	-2.68437	0.0014	0.009735	yes
sucD	175.891	116.136	-0.59887	-2.31402	0.0014	0.009735	yes
guaD	10.0977	4.72647	-1.09519	-2.52667	0.0014	0.009735	yes
sigI	8.11309	3.6806	-1.14031	-2.50081	0.0014	0.009735	yes
gerR	3.90526	1.05239	-1.89174	-2.93496	0.00145	0.009898	yes
pstA	3.32515	0.410375	-3.01841	-3.08088	0.00145	0.009898	yes
yaaC	2.3386	0.298342	-2.9706	-3.71073	0.00145	0.009898	yes
yrhH	4.6713	0.713315	-2.71121	-3.36162	0.00145	0.009898	yes
bceB	1.71092	0.808108	-1.08216	-2.38328	0.0015	0.010202	yes
glnK	13.1772	5.37238	-1.29441	-2.56285	0.0015	0.010202	yes
rpsF	1776.19	1187.05	-0.5814	-2.24961	0.00155	0.010485	yes
nasC	0.754606	0.160767	-2.23076	-3.14594	0.0016	0.010688	yes
trnJ-Leu1	2786.28	1441.59	-0.95068	-2.3984	0.0016	0.010688	yes
xhIA	45.7334	23.8951	-0.93653	-2.37953	0.0016	0.010688	yes
gmuC	1.38958	0.374255	-1.89256	-2.96508	0.00165	0.010943	yes
yxxF	8.5412	5.13431	-0.73427	-2.25804	0.00165	0.010943	yes
ansZ	1.94496	0.246278	-2.98138	-3.80065	0.0017	0.011176	yes
araE	1.40019	0.183103	-2.9349	-3.60091	0.0017	0.011176	yes
ygaE	4.92204	2.75092	-0.83934	-2.29632	0.0017	0.011176	yes
ybfA	5.22562	2.45421	-1.09034	-2.25969	0.0018	0.011175	yes
pabB	13.8081	9.16498	-0.59131	-2.26796	0.00185	0.011993	yes
ynfC	15.5804	8.38535	-0.89379	-2.24885	0.00185	0.011993	yes
yrcC	3.62822	1.55607	-1.22135	-2.52835	0.00185	0.011993	yes
yvmA	4.76375	2.75575	-0.78965	-2.24711	0.00185	0.011993	yes
ndoAI	230.044	156.522	-0.55554	-2.16809	0.0019	0.012296	yes
gltC	6.64085	3.82383	-0.79635	-2.24324	0.00205	0.01313	yes
ytbE	2.30098	0.7781	-1.56422	-2.57758	0.0021	0.013336	yes
nasA	2.33544	1.09058	-1.0986	-2.40444	0.00215	0.013515	yes
ywgB	9.11043	3.65841	-1.3163	-2.30045	0.00215	0.013515	yes
yIbB	8.74235	3.83201	-1.18992	-2.4858	0.0022	0.013783	yes
rsmG	22.9572	15.0665	-0.6076	-2.20788	0.00225	0.014026	yes
csrA	43.3506	11.2152	-1.9506	-2.64969	0.0023	0.014219	yes
treP	1.1495	0.200781	-2.51731	-3.08942	0.0023	0.014219	yes
frlO	1.85505	0.830445	-1.1595	-2.33939	0.00235	0.01448	yes
licC	1.18058	0.260034	-2.18273	-2.98994	0.0024	0.01474	yes
yxcE	8.71271	4.92426	-0.82322	-2.2001	0.0024	0.01474	yes
mifM	45.3607	25.422	-0.83537	-2.25803	0.0025	0.015278	yes
trnS-Gln	5883.85	3454.96	-0.76809	-2.17589	0.00255	0.015533	yes
yxlG	6.56055	2.62616	-1.32086	-2.28224	0.0026	0.015786	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ycnC	9.97391	6.15139	-0.69725	-2.18509	0.0028	0.016675	yes
minD	35.5552	24.2594	-0.55152	-2.1689	0.00285	0.016785	yes
veg	790.033	551.962	-0.51735	-2.0938	0.00285	0.016785	yes
yceE	101.157	69.6008	-0.53941	-2.17052	0.00285	0.016785	yes
yhcB	8.1093	4.0687	-0.99501	-2.30418	0.00285	0.016785	yes
yhxA	9.18782	6.04298	-0.60446	-2.14484	0.00285	0.016785	yes
ywsB	18.1755	11.1218	-0.70861	-2.16741	0.00285	0.016785	yes
yvrO	127.267	58.6264	-1.11824	-2.11281	0.00295	0.017211	yes
helD	3.75759	2.39281	-0.65111	-2.14651	0.00305	0.01763	yes
ywaD	1.08564	0.298085	-1.86475	-2.6911	0.00305	0.01763	yes
ydzE	25.4601	6.45522	-1.9797	-2.75968	0.0031	0.017808	yes
ywoG	4.22711	2.43087	-0.7982	-2.1781	0.0032	0.018187	yes
dnaH	41.7608	26.1366	-0.67608	-2.10249	0.0033	0.01867	yes
gmuE	2.73631	1.01764	-1.427	-2.25852	0.0034	0.01912	yes
yfmB	10.9558	4.77342	-1.1986	-2.33983	0.0034	0.01912	yes
bsuMB	20.0032	13.795	-0.53609	-2.09658	0.00345	0.019343	yes
xylA	1.21388	0.406331	-1.57891	-2.51188	0.00345	0.019343	yes
trnJ-Lys	2610.18	1294.44	-1.01182	-2.1563	0.0035	0.019535	yes
yrkC	6.57057	3.30739	-0.99032	-2.20954	0.0035	0.019535	yes
ywlF	58.6991	40.0793	-0.55048	-2.07995	0.0035	0.019535	yes
yxIC	19.6163	4.79495	-2.03247	-2.60431	0.00355	0.019667	yes
yrhF	11.9703	5.55404	-1.10784	-2.26981	0.0036	0.019856	yes
yqiG	4.50216	2.64436	-0.7677	-2.10025	0.00365	0.020072	yes
yuaD	11.4627	6.82747	-0.74752	-2.08075	0.00365	0.020072	yes
efeM	24.459	15.5432	-0.65408	-2.04475	0.0037	0.020288	yes
pucJ	1.12921	0.157958	-2.8377	-3.21901	0.0037	0.020288	yes
tatCD	5.06122	1.87473	-1.4328	-2.30636	0.00375	0.020442	yes
yrdB	12.4529	5.97424	-1.05966	-2.23556	0.00385	0.020926	yes
msmE	1.41512	0.490185	-1.52952	-2.31638	0.0039	0.021136	yes
yusF	23.6796	12.8259	-0.88459	-2.17266	0.0039	0.021136	yes
ynzD	72.6899	25.2559	-1.52513	-2.41649	0.00395	0.021283	yes
yyzM	68.0257	33.253	-1.03259	-2.22983	0.00395	0.021283	yes
yqbA	1.31055	0.136237	-3.26598	-3.37481	0.004	0.021429	yes
mmr	2.39454	1.19614	-1.00136	-2.0326	0.0043	0.022775	yes
gbsB	3.07152	1.69163	-0.86054	-2.12989	0.00435	0.022942	yes
trnD-Gln	6775.78	4066.06	-0.73676	-2.08955	0.00445	0.023403	yes
xkdK	7.86572	5.18347	-0.60166	-2.00096	0.00445	0.023403	yes
degS	19.822	13.8102	-0.52137	-2.03362	0.0045	0.023633	yes
yvyE	15.8945	8.29639	-0.93797	-2.02037	0.0046	0.02409	yes
licR	2.70222	1.63985	-0.72058	-2.05258	0.00465	0.024216	yes
xynB	0.807847	0.233539	-1.79042	-2.45323	0.00465	0.024216	yes
addA	11.6568	7.76923	-0.58533	-1.96083	0.0048	0.024824	yes
ribH	23.3712	14.6386	-0.67496	-2.06862	0.0048	0.024824	yes
yvaP	15.7146	7.62072	-1.04411	-2.16763	0.0049	0.025202	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
parA	46.4164	27.591	-0.75044	-2.02701	0.00495	0.025285	yes
queF	10.4112	5.79944	-0.84415	-2.09839	0.00495	0.025285	yes
yneJ	68.0224	47.8543	-0.50736	-1.98738	0.00495	0.025285	yes
glcP	1.73317	0.811434	-1.09486	-2.12253	0.00505	0.02569	yes
gmuR	2.49005	0.818488	-1.60514	-2.46076	0.00505	0.02569	yes
yhjO	1.09623	0.247664	-2.14609	-2.65033	0.0051	0.025909	yes
ndoA	125.659	89.2364	-0.49381	-1.92668	0.00545	0.027463	yes
yoal	1.02314	0.394553	-1.37472	-2.21199	0.0056	0.02803	yes
uvrC	3.00145	1.87215	-0.68096	-1.9585	0.0057	0.028341	yes
queG	1.51965	0.643213	-1.24037	-2.19092	0.00575	0.028551	yes
yukJ	7.34066	4.29552	-0.77308	-2.01385	0.00585	0.02878	yes
yjdH	5.74325	1.09798	-2.38702	-2.79774	0.00585	0.02878	yes
yaaT	33.2569	23.498	-0.50111	-1.97007	0.006	0.029402	yes
ydeK	1.85335	0.674533	-1.45817	-2.24719	0.006	0.029402	yes
yusE	12.6702	5.55604	-1.18931	-2.14344	0.0061	0.029736	yes
noc	48.3875	34.7502	-0.47761	-1.91232	0.0061	0.029736	yes
bacC	21.7552	14.9964	-0.53675	-1.97414	0.00615	0.02994	yes
pstC	2.79684	0.515261	-2.44042	-3.12825	0.0062	0.030105	yes
yyaD	1.32383	0.254545	-2.37872	-2.72151	0.0062	0.030105	yes
yheC	1.7597	0.319515	-2.46137	-2.75735	0.00625	0.030269	yes
yomL	3.07733	1.36841	-1.16918	-2.12996	0.00625	0.030269	yes
ywbO	5.70831	3.03293	-0.91235	-2.0244	0.00645	0.031117	yes
pcfA	5.17063	2.07593	-1.31658	-2.16192	0.0065	0.031317	yes
yrkK	5.06522	2.20411	-1.20043	-2.08015	0.0066	0.031758	yes
yuxH	3.41924	2.03001	-0.75219	-1.93052	0.00675	0.032397	yes
trnS-Leu1	3966.55	2474.37	-0.68083	-1.93709	0.0068	0.032595	yes
ytdP	0.922542	0.474976	-0.95776	-2.00754	0.007	0.033425	yes
yobF	6.32109	3.94478	-0.68023	-1.93502	0.00705	0.03362	yes
bglA	2.31557	1.31826	-0.81274	-1.97384	0.0071	0.033773	yes
csbB	10.269	6.89045	-0.57563	-1.91737	0.0071	0.033773	yes
oxaAB	14.6789	9.96017	-0.55951	-1.92473	0.0072	0.034205	yes
ebrA	8.21672	2.2799	-1.84959	-2.40219	0.0074	0.035066	yes
ykfC	6.43451	3.31814	-0.95546	-1.97135	0.0075	0.035271	yes
yvhJ	13.9798	9.25147	-0.59559	-1.90883	0.0075	0.035271	yes
pbpC	17.0353	12.2554	-0.47511	-1.89731	0.00755	0.035417	yes
yoaK	5.7226	3.25621	-0.81348	-1.94802	0.00755	0.035417	yes
ydeM	10.3984	5.70745	-0.86544	-1.94807	0.00805	0.037064	yes
ytrl	3.99234	1.50627	-1.40625	-2.00152	0.00805	0.037064	yes
racE	19.5261	13.7421	-0.5068	-1.86461	0.0082	0.037569	yes
yngB	5.93505	3.6631	-0.69619	-1.91763	0.00825	0.037706	yes
yrkL	13.6905	8.65883	-0.66094	-1.86431	0.0083	0.037888	yes
trpB	21.1254	12.8446	-0.71782	-1.90548	0.00835	0.03807	yes
ybdJ	13.1838	8.58368	-0.6191	-1.91843	0.00845	0.038432	yes
trnJ-Val	2221.75	1145.67	-0.9555	-1.9674	0.00855	0.038792	yes

Table S2	value_alsS High sorted	value_alsS Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yrkJ	1.57201	0.470543	-1.74022	-2.26618	0.0088	0.039733	yes
ywmB	48.1771	34.6669	-0.47479	-1.8876	0.0088	0.039733	yes
trnB-Lys	2245.01	1198.56	-0.90541	-1.87649	0.00895	0.040216	yes
yrkN	3.6186	1.52866	-1.24317	-2.07205	0.009	0.040295	yes
yeeG	1.27706	0.428369	-1.5759	-2.24585	0.00915	0.040771	yes
recX	9.66307	6.29764	-0.61767	-1.87501	0.00935	0.041514	yes
ypmA	402.133	267.513	-0.58807	-1.87598	0.00935	0.041514	yes
metA	10.03	6.73497	-0.57458	-1.85089	0.00945	0.041759	yes
dnaN	16.4102	11.7592	-0.4808	-1.83645	0.0095	0.041881	yes
ykvO	1.7085	0.476509	-1.84216	-2.30631	0.0095	0.041881	yes
yndF	1.2282	0.481448	-1.35109	-2.0622	0.00955	0.042052	yes
yqgW	105.876	54.2715	-0.96411	-2.00496	0.00965	0.042392	yes
yyaC	3.18008	1.43362	-1.1494	-1.95974	0.0098	0.042799	yes
yxIE	73.0733	24.278	-1.5897	-1.90778	0.00985	0.042917	yes
ykfD	3.85363	2.32931	-0.72632	-1.82404	0.0099	0.043085	yes
ysxD	5.42613	2.64668	-1.03574	-1.96777	0.01015	0.043968	yes
trpC	15.9593	7.89821	-1.0148	-1.86492	0.01025	0.044298	yes
divIB	10.5013	6.53466	-0.68438	-1.82325	0.0105	0.044859	yes
yjiA	11.3296	3.54252	-1.67725	-2.19054	0.0105	0.044859	yes
kbl	0.921709	0.258706	-1.833	-2.25247	0.01065	0.045396	yes
ykuG	4.81077	3.24518	-0.56797	-1.85142	0.01105	0.046834	yes
yobO	1.70146	1.07156	-0.66707	-1.80111	0.0111	0.046939	yes
minC	44.8671	32.7455	-0.45436	-1.79214	0.01115	0.047044	yes
aprE	1.76963	0.893532	-0.98586	-1.91716	0.0112	0.047149	yes
yqeD	2.31403	0.782487	-1.56427	-2.13369	0.0114	0.047775	yes
coaX	9.30736	6.11732	-0.60547	-1.80699	0.0115	0.048086	yes
yazA	29.6781	10.8679	-1.44933	-1.83875	0.0117	0.048759	yes
ywaF	1.6572	0.466983	-1.82731	-2.1329	0.0117	0.048759	yes
ysaA	21.6126	15.5918	-0.47109	-1.74968	0.0119	0.049317	yes

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
pstBB	2.70345	0.035469	-6.25212	-2.04396	0.2355	0.401435	no
tcyL	2.8224	0.079568	-5.1486	-3.36655	0.17855	0.335722	no
spolIID	22.5438	0.719512	-4.96957	-5.6515	0.04395	0.129118	no
pstBA	3.84998	0.16272	-4.56439	-3.46234	0.02495	0.085158	no
glnQ	1.04032	0.049545	-4.39214	-1.819	0.25335	0.416377	no
gmuA	3.02746	0.1558	-4.28035	-1.98368	0.23795	0.403275	no
gmuB	15.5451	0.830096	-4.22704	-3.01606	0.0318	0.102985	no
yqxG	0.672728	0.037728	-4.1563	-1.65296	0.25335	0.416377	no
yngHA	0.311003	0.018185	-4.09608	0	1	1	no
trnJ-Arg	387.448	22.7751	-4.08847	-6.7263	0.2355	0.401435	no
ydfR	0.685614	0.054855	-3.64369	-1.51154	0.25335	0.416377	no
yvdQ	0.797718	0.06628	-3.58924	-1.28602	0.23585	0.40158	no
ybcF	4.00528	0.333022	-3.58821	-2.93297	0.01765	0.066236	no
yusQ	1.64943	0.143414	-3.52371	-1.83036	0.25355	0.416421	no
ybcH	3.01997	0.278714	-3.43768	-2.23883	0.2536	0.416421	no
ymzE	26.0611	2.40786	-3.43607	-1.23662	0.14485	0.292147	no
yzkR	8.15119	0.75398	-3.43441	-1.46714	0.1487	0.297759	no
yhcV	0.98491	0.09329	-3.4002	-1.32621	0.2367	0.402476	no
yqbT	0.314051	0.030896	-3.34553	0	1	1	no
spsA	0.359399	0.036217	-3.31086	0	1	1	no
kamB	0.410064	0.041707	-3.29748	0	1	1	no
yqcC	0.711349	0.074879	-3.24793	-2.0137	0.0759	0.186454	no
yycE	1.11843	0.119824	-3.22248	-1.56248	0.2544	0.417267	no
yngF	0.419371	0.044939	-3.2222	0	1	1	no
xkdB	0.379813	0.041116	-3.20752	0	1	1	no
yvfR	0.593276	0.066355	-3.16042	-1.89147	0.09885	0.224244	no
ydzT	54.7086	6.27172	-3.12484	-3.67414	0.23825	0.403275	no
cotV	1.22295	0.141109	-3.11548	-1.5873	0.25445	0.417267	no
ysxE	0.216466	0.025006	-3.11377	0	1	1	no
yhcO	0.221216	0.026865	-3.04164	0	1	1	no
alrB	0.7966	0.100633	-2.98475	-2.20253	0.02915	0.096154	no
hutH	0.397244	0.050801	-2.96709	0	1	1	no
yisN	0.417136	0.053395	-2.96574	0	1	1	no
yteP	0.261943	0.034172	-2.93837	0	1	1	no
glnH	0.252631	0.033237	-2.92618	0	1	1	no
yqbK	0.515189	0.068737	-2.90595	-2.32022	0.0503	0.139851	no
yhcQ	0.664279	0.091191	-2.86483	-1.7734	0.14405	0.291852	no
manP	0.288165	0.041582	-2.79286	0	1	1	no
ytzL	27.1854	3.92317	-2.79274	-4.0777	0.02925	0.096314	no
uxaC	0.456395	0.067553	-2.75618	0	1	1	no
yvrJ	2.93268	0.447945	-2.71083	-2.30561	0.0535	0.14497	no
ylbD	0.684932	0.104629	-2.71068	-1.06631	0.25055	0.414512	no
yqaN	0.594548	0.090824	-2.71064	-1.0249	0.25055	0.414512	no
yqaQ	0.531298	0.081164	-2.71061	-0.99539	0.25055	0.414512	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywzF	7.80105	1.19884	-2.70202	-2.56211	0.2608	0.42581	no
yfkQ	0.350595	0.054338	-2.68977	0	1	1	no
yesO	0.12061	0.019043	-2.66304	0	1	1	no
pucA	0.208998	0.033005	-2.66272	0	1	1	no
cgeC	1.46358	0.243865	-2.58534	-1.48848	0.2647	0.429151	no
yngA	1.2438	0.213231	-2.54427	-1.64103	0.0387	0.117501	no
ytrH	7.81465	1.35535	-2.52752	-2.62095	0.0192	0.06974	no
yqbQ	0.301577	0.052903	-2.51112	0	1	1	no
yteT	0.372872	0.067111	-2.47407	0	1	1	no
yrbG	0.315604	0.057388	-2.45929	0	1	1	no
yodS	0.231832	0.042231	-2.45672	0	1	1	no
yokU	8.7183	1.61471	-2.43277	-1.98805	0.02915	0.096154	no
yjmD	0.303152	0.057105	-2.40834	0	1	1	no
narG	0.157256	0.02996	-2.39202	0	1	1	no
yjfC	0.947436	0.185012	-2.35641	-2.16502	0.02545	0.08647	no
lrpB	1.07083	0.210649	-2.34582	-1.49245	0.0408	0.121975	no
yodH	0.469937	0.093438	-2.33039	0	1	1	no
yqjX	0.946279	0.189182	-2.32249	-1.17087	0.41015	0.572096	no
licB	5.19303	1.0386	-2.32194	-1.90693	0.0328	0.104859	no
yyaN	2.1464	0.43477	-2.30359	-1.36432	0.0848	0.202199	no
spolIAC	3.02803	0.622623	-2.28195	-1.41786	0.29565	0.465216	no
yqbP	0.218524	0.044998	-2.27987	0	1	1	no
pucD	0.510598	0.106595	-2.26005	-2.19534	0.03145	0.102117	no
cotP	1.07892	0.227147	-2.2479	-1.43629	0.056	0.149681	no
bceA	1.63164	0.343519	-2.24786	-1.89113	0.03695	0.113932	no
ytbD	0.769761	0.162524	-2.24376	-2.22632	0.01985	0.071269	no
yqbD	0.448098	0.094942	-2.2387	0	1	1	no
exuT	0.550403	0.117176	-2.23181	-1.98919	0.03695	0.113932	no
ydfS	0.851334	0.184659	-2.20486	-1.76427	0.0649	0.167823	no
pucB	0.669493	0.148629	-2.17136	-1.18619	0.17635	0.332834	no
yvaC	0.233672	0.051897	-2.17078	0	1	1	no
gabT	0.725675	0.163514	-2.14991	-2.36588	0.01545	0.06022	no
adaA	0.842249	0.189949	-2.14864	-1.51968	0.18355	0.341493	no
uxaA	0.518497	0.116972	-2.14818	-1.79557	0.08965	0.210008	no
rhgT	0.595343	0.135468	-2.13577	-1.17796	0.12955	0.271155	no
yuzH	4.20395	0.962853	-2.12636	-2.17607	0.08145	0.195711	no
uxuA	0.436031	0.100138	-2.12244	0	1	1	no
yqcB	1.44338	0.333003	-2.11585	-1.09155	0.3269	0.49499	no
narI	0.240715	0.055556	-2.11531	0	1	1	no
pucM	4.99387	1.15622	-2.11075	-1.61248	0.0526	0.143573	no
lplC	1.04012	0.242348	-2.10159	-2.12821	0.02245	0.078052	no
cotG	1.20633	0.281232	-2.10079	-1.63348	0.05035	0.139886	no
xpf	0.72073	0.169589	-2.08742	-1.24593	0.06325	0.164353	no
yrzN	2.28893	0.540962	-2.08107	-1.84376	0.3148	0.484068	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yyzB	9.67162	2.31026	-2.0657	-1.31944	0.09575	0.220154	no
yqbS	0.485961	0.116616	-2.05908	0	1	1	no
ysisU	0.707934	0.169923	-2.05873	-1.63052	0.0889	0.208775	no
yqil	1.02819	0.249285	-2.04424	-1.82222	0.05395	0.145451	no
sspl	57.6213	13.9824	-2.04299	-1.53341	0.0697	0.176208	no
uxuB	0.267217	0.064903	-2.04166	0	1	1	no
yesL	0.843883	0.20547	-2.03812	-1.28477	0.10725	0.237246	no
ykoQ	0.591039	0.143911	-2.03808	-1.52992	0.0697	0.176208	no
pucC	0.894954	0.22175	-2.01288	-1.64032	0.03945	0.118604	no
ynzE	2.52048	0.628814	-2.00299	-1.18934	0.10705	0.237055	no
pbpG	0.420124	0.104816	-2.00295	0	1	1	no
rbfK	0.76214	0.190303	-2.00176	-1.58806	0.06735	0.172014	no
exuM	0.38404	0.096793	-1.98828	0	1	1	no
yqbM	1.25924	0.323814	-1.95931	-1.72732	0.1184	0.254523	no
yodQ	0.254971	0.065658	-1.95729	0	1	1	no
psiE	1.57939	0.409168	-1.9486	-1.46174	0.0953	0.21962	no
spolIP	0.771259	0.20114	-1.93902	-2.1215	0.01795	0.066825	no
rbsD	5.63106	1.47342	-1.93423	-1.91478	0.0297	0.097366	no
ykpC	10.6086	2.78025	-1.93194	-1.40056	0.36085	0.526068	no
yfiL	0.106691	0.028073	-1.92616	0	1	1	no
prkA	0.356921	0.094878	-1.91146	0	1	1	no
yteA	0.377998	0.100812	-1.90671	0	1	1	no
youB	22.0166	5.87786	-1.90523	-1.53174	0.0651	0.167875	no
spolID	0.974935	0.261513	-1.89842	-2.19461	0.01385	0.055668	no
mdxE	0.487947	0.133203	-1.87309	0	1	1	no
cwID	0.628889	0.171748	-1.87251	-1.38845	0.09815	0.223471	no
sleB	0.236978	0.065243	-1.86086	0	1	1	no
rhgW	0.089042	0.024808	-1.84368	0	1	1	no
sigV	1.17911	0.330987	-1.83285	-1.21177	0.1387	0.284554	no
yebG	30.7156	8.72264	-1.81613	-1.94158	0.0181	0.067116	no
yqaL	0.191971	0.054855	-1.80718	0	1	1	no
lplA	0.232979	0.067265	-1.79227	0	1	1	no
ykvU	0.268055	0.077392	-1.79227	0	1	1	no
ykzQ	7.48365	2.1802	-1.77928	-1.24691	0.0968	0.221749	no
ytxO	0.7761	0.227147	-1.77262	-1.09895	0.10895	0.239415	no
hmp	0.178716	0.052316	-1.77234	0	1	1	no
ypzA	7.21919	2.11637	-1.77024	-1.69507	0.04195	0.124714	no
yrkB	6.91657	2.04739	-1.75627	-3.54068	0.3809	0.544244	no
yqbH	0.431493	0.127727	-1.75627	0	1	1	no
yfnF	0.220597	0.065794	-1.74538	0	1	1	no
sigO	1.74621	0.522198	-1.74156	-1.77364	0.0334	0.105961	no
ydfC	0.459878	0.137593	-1.74085	0	1	1	no
adaB	1.32628	0.398457	-1.73489	-1.2687	0.07235	0.180948	no
ctpB	0.361043	0.108481	-1.73473	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
amyC	1.47334	0.445616	-1.72521	-1.92004	0.0196	0.070712	no
yhbB	0.764618	0.232083	-1.7201	-1.73131	0.03875	0.117501	no
yesN	0.26439	0.080461	-1.7163	0	1	1	no
aldY	0.228593	0.069997	-1.70742	0	1	1	no
spoIVB	0.157237	0.048388	-1.70021	0	1	1	no
spoIIR	1.30633	0.406728	-1.68339	-1.73209	0.0333	0.105823	no
blt	0.764868	0.238814	-1.67932	-1.93502	0.01925	0.069854	no
csfB	6.11996	1.9288	-1.66582	-1.643	0.1258	0.266291	no
ykzS	7.88565	2.48674	-1.66498	-0.96362	0.16175	0.316014	no
yngI	0.492667	0.157484	-1.6454	0	1	1	no
hutG	0.87241	0.28095	-1.63469	-1.66325	0.04255	0.125997	no
gerPE	1.76309	0.570364	-1.62815	-1.12965	0.15125	0.301531	no
cwlA	0.571187	0.184827	-1.62779	-1.28644	0.08135	0.195596	no
yabG	0.765107	0.247767	-1.62668	-1.60262	0.0447	0.1305	no
yetA	0.20904	0.067756	-1.62535	0	1	1	no
yqaj	0.355852	0.115995	-1.61721	0	1	1	no
ywzE	13.4968	4.43738	-1.60484	-0.92071	0.1626	0.316815	no
ylaJ	1.39292	0.459093	-1.60125	-1.66029	0.0335	0.106098	no
yusS	0.605373	0.201754	-1.58523	-0.76568	0.3802	0.543934	no
yraB	0.709201	0.236396	-1.58499	-0.95453	0.12825	0.269037	no
yfnH	0.278219	0.092752	-1.58478	0	1	1	no
rhgX	0.180695	0.060425	-1.58035	0	1	1	no
yyaO	6.69369	2.24077	-1.57881	-1.29705	0.1081	0.238469	no
yusR	1.80536	0.606572	-1.57354	-1.2342	0.1155	0.250161	no
ypeB	0.691634	0.233929	-1.56394	-1.98792	0.01855	0.068175	no
yqbO	0.342726	0.116076	-1.56199	0	1	1	no
pyrB	71.5814	24.3429	-1.55608	-1.60954	0.0277	0.092432	no
ythA	0.804582	0.274745	-1.55015	-2.10163	0.0153	0.059885	no
polYB	0.482433	0.16561	-1.54254	0	1	1	no
rsoA	10.1203	3.50272	-1.5307	-1.51759	0.0477	0.136144	no
lplB	0.714533	0.247487	-1.52965	-1.51656	0.0478	0.136144	no
cotI	0.154659	0.053568	-1.52964	0	1	1	no
asnO	0.272692	0.094475	-1.52926	0	1	1	no
yqbB	0.960062	0.333897	-1.52372	-1.60927	0.0443	0.129681	no
ynzG	8.92319	3.10472	-1.5231	-1.55259	0.0467	0.134447	no
yqiH	4.61048	1.612	-1.51607	-1.38334	0.0721	0.180564	no
ydzM	35.7003	12.6065	-1.50177	-1.7508	0.02825	0.093682	no
ywzD	53.1992	18.8116	-1.49978	-1.5269	0.0562	0.150001	no
yoaR	0.870133	0.313473	-1.4729	-1.69019	0.0349	0.109234	no
gerPB	2.91705	1.05962	-1.46097	-1.18037	0.18665	0.345196	no
ywpE	1.82361	0.663248	-1.45917	-0.88506	0.2213	0.38668	no
gerPF	1.42048	0.517134	-1.45777	-0.67933	0.3855	0.547739	no
ydgA	1.02075	0.37168	-1.45749	-0.64188	0.3855	0.547739	no
spoVIF	0.881366	0.320951	-1.45739	-0.62377	0.3855	0.547739	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yraD	0.556625	0.202733	-1.45713	-0.56457	0.3855	0.547739	no
yraF	0.676554	0.246447	-1.45693	-0.91967	0.2867	0.455161	no
yurZ	0.321216	0.11701	-1.45691	0	1	1	no
yrkE	1.36316	0.498923	-1.45006	-1.34655	0.08665	0.205039	no
yfiM	0.356296	0.130565	-1.44831	0	1	1	no
tuaA	0.842942	0.309719	-1.44447	-1.02421	0.183	0.340809	no
yisl	30.9479	11.4221	-1.43801	-1.47465	0.05495	0.147614	no
gpr	0.759513	0.280841	-1.43532	-1.71833	0.0325	0.104616	no
yfhJ	7.90775	2.93026	-1.43224	-1.63009	0.03925	0.118289	no
phrA	951.328	354.619	-1.42367	-0.81941	0.22075	0.38608	no
yhdB	3.2203	1.21428	-1.4071	-0.80304	0.24745	0.411288	no
yoaQ	1.14779	0.433054	-1.40624	-0.73602	0.2364	0.402149	no
spoVAB	0.796896	0.300697	-1.40608	-0.70159	0.2648	0.429151	no
adhB	0.307076	0.11607	-1.4036	0	1	1	no
ykvR	1.16211	0.439958	-1.40131	-1.34773	0.307	0.476648	no
yoxB	1.03232	0.391178	-1.39999	-1.59923	0.04315	0.127269	no
acdA	0.909021	0.347095	-1.38898	-1.21903	0.11835	0.254523	no
hutU	0.382144	0.146146	-1.38671	0	1	1	no
ywlB	0.503727	0.19313	-1.38307	0	1	1	no
ykcB	0.171846	0.066248	-1.37518	0	1	1	no
yoeD	11.9637	4.61812	-1.37328	-1.53119	0.0528	0.143909	no
yrkH	0.373418	0.144454	-1.37018	0	1	1	no
uxaB	0.529291	0.204792	-1.3699	-1.42796	0.0538	0.145361	no
slpS	0.242159	0.093751	-1.36905	0	1	1	no
licA	3.02746	1.17379	-1.36693	-1.03776	0.18035	0.337051	no
ydeG	0.733657	0.284568	-1.36633	-1.80872	0.02565	0.086833	no
narH	0.255069	0.099067	-1.36441	0	1	1	no
yebD	44.2508	17.2531	-1.35885	-1.64947	0.0323	0.104152	no
ytnL	0.456165	0.178112	-1.35677	0	1	1	no
yqhH	0.135933	0.053202	-1.35335	0	1	1	no
treA	0.633138	0.248086	-1.35168	-1.8973	0.01635	0.062939	no
yqcK	3.09664	1.21353	-1.35149	-1.70163	0.0312	0.10157	no
queD	7.40775	2.90994	-1.34805	-1.71633	0.02325	0.08031	no
xkdR	12.1338	4.80165	-1.33743	-1.45612	0.05355	0.145001	no
mdxJ	0.707072	0.281639	-1.32801	-0.92872	0.18575	0.344214	no
yitA	0.440421	0.175969	-1.32356	0	1	1	no
phoD	0.370432	0.148023	-1.32338	0	1	1	no
atoA	0.3802	0.1521	-1.32174	0	1	1	no
yngJ	0.069344	0.027743	-1.32164	0	1	1	no
xynP	0.632408	0.256267	-1.30321	-1.69789	0.0334	0.105961	no
bltD	2.03268	0.829032	-1.29389	-1.39911	0.0641	0.16633	no
spsF	0.534503	0.218895	-1.28796	-0.95785	0.19075	0.350349	no
yhfM	0.583283	0.240843	-1.2761	-0.65887	0.23375	0.40001	no
spolIIA	0.156672	0.0647	-1.2759	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ydeQ	2.05384	0.848391	-1.27552	-1.69273	0.02965	0.097287	no
yqfZ	1.2415	0.513725	-1.27302	-0.89108	0.26445	0.429151	no
xsa	0.554754	0.229668	-1.2723	-1.6082	0.0353	0.109933	no
ynxB	11.1517	4.64948	-1.26212	-1.93703	0.01295	0.052675	no
ykcC	0.61586	0.256955	-1.26109	-1.28946	0.0854	0.20337	no
ygaB	2.23985	0.936382	-1.25823	-1.09764	0.1446	0.292116	no
yusW	1.19903	0.506772	-1.24246	-0.97891	0.1741	0.330593	no
yybH	4.95307	2.09746	-1.23968	-1.80895	0.0214	0.07496	no
yxcD	6.77916	2.87802	-1.23603	-1.63696	0.03515	0.109649	no
spoVAC	0.433639	0.1862	-1.21964	0	1	1	no
gerPD	10.5519	4.53213	-1.21925	-0.73997	0.35105	0.517514	no
yfnE	0.480888	0.206699	-1.21817	0	1	1	no
yoZF	0.485282	0.208921	-1.21587	0	1	1	no
ydjJ	0.696921	0.301777	-1.20751	-1.38943	0.06025	0.157655	no
tuaC	0.777479	0.337783	-1.20271	-1.48043	0.05125	0.141231	no
levB	0.183803	0.080444	-1.19211	0	1	1	no
yyzE	7.27395	3.19505	-1.1869	-1.03517	0.14915	0.2983	no
yitG	0.697175	0.306437	-1.18593	-1.5426	0.0399	0.119668	no
tuaG	1.30454	0.577232	-1.17631	-1.51386	0.04065	0.121624	no
tcyN	0.760295	0.339913	-1.16139	-1.10106	0.1521	0.302096	no
ykzB	38.1999	17.1196	-1.15792	-1.2471	0.09705	0.222164	no
yrzK	21.5449	9.66579	-1.15638	-1.08306	0.1409	0.287286	no
ykvQ	2.16252	0.970416	-1.15604	-1.7037	0.0212	0.074469	no
ymzE	706.952	318.696	-1.14943	-1.17795	0.404	0.566693	no
yvdP	0.986578	0.445097	-1.14831	-1.85388	0.01475	0.058344	no
mmgE	0.54689	0.247212	-1.1455	-1.46161	0.05095	0.140924	no
ywcA	0.470698	0.213246	-1.14228	0	1	1	no
cypD	0.179286	0.081476	-1.13782	0	1	1	no
yclH	0.454209	0.206559	-1.1368	0	1	1	no
glsA	0.189156	0.086085	-1.13574	0	1	1	no
tcyM	0.266578	0.122183	-1.12551	0	1	1	no
natA	1.27547	0.586307	-1.1213	-1.47346	0.0515	0.141502	no
ydfJ	0.359347	0.165708	-1.11673	0	1	1	no
yrkl	1.24727	0.575362	-1.11624	-0.54009	0.435	0.597165	no
yppG	0.642431	0.296502	-1.1155	-0.65749	0.3123	0.481275	no
yitE	0.132174	0.06101	-1.11532	0	1	1	no
yvfS	0.422124	0.194851	-1.1153	0	1	1	no
rhgP	0.15538	0.071724	-1.11527	0	1	1	no
spsE	0.37829	0.174715	-1.11449	0	1	1	no
spoVK	0.510494	0.236441	-1.11042	-1.12372	0.1389	0.284554	no
ykoN	0.364102	0.168735	-1.10958	0	1	1	no
yvaD	7.94394	3.68335	-1.10883	-1.43488	0.0443	0.129681	no
yisJ	0.216929	0.100861	-1.10486	0	1	1	no
putM	0.221533	0.103001	-1.10486	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yhcC	2.38772	1.11099	-1.10379	-1.07785	0.1249	0.265288	no
yisX	3.07695	1.43384	-1.10162	-1.94319	0.01255	0.051496	no
pdaA	0.958686	0.447105	-1.10045	-1.31158	0.0803	0.194298	no
yobA	2.48131	1.15823	-1.09918	-1.04163	0.1366	0.281027	no
ntdB	2.01738	0.944971	-1.09414	-1.47402	0.04795	0.136364	no
albG	1.88846	0.884961	-1.09352	-0.94331	0.2011	0.362407	no
yqbF	1.27629	0.598131	-1.09343	-0.58952	0.3404	0.508829	no
yycP	0.343688	0.161367	-1.09075	0	1	1	no
yzkD	5.46001	2.56852	-1.08797	-2.50934	0.43005	0.591893	no
hutI	0.817698	0.384761	-1.08761	-1.51082	0.04185	0.124516	no
yhbH	0.819298	0.386678	-1.08326	-1.51622	0.0427	0.126241	no
ydzP	4.24498	2.00382	-1.08301	-2.46006	0.2615	0.426393	no
spoIIAD	0.217679	0.103065	-1.07864	0	1	1	no
gerPC	1.02515	0.485569	-1.07809	-1.06177	0.1422	0.289202	no
amyD	1.15201	0.547627	-1.07288	-1.32764	0.06765	0.172427	no
yobH	0.895326	0.425633	-1.07281	-1.04076	0.13565	0.279947	no
ywrK	0.853052	0.405938	-1.07137	-1.63144	0.02825	0.093682	no
yndD	0.335606	0.160498	-1.06421	0	1	1	no
rpsNB	1.43351	0.687462	-1.0602	-1.04371	0.3229	0.491801	no
ytII	1.58422	0.765602	-1.04911	-1.75895	0.01985	0.071269	no
ylaD	2.89271	1.39803	-1.04902	-0.79219	0.24665	0.410607	no
yyzI	10.2846	4.97095	-1.0489	-1.17914	0.0977	0.222696	no
yddN	0.760529	0.367823	-1.04799	-1.32109	0.0735	0.182844	no
tadA	4.36809	2.11977	-1.0431	-1.77721	0.0174	0.065761	no
yrzE	0.763117	0.3724	-1.03505	-0.73565	0.2763	0.442412	no
mdxD	0.4938	0.24181	-1.03005	0	1	1	no
spsB	0.27744	0.135921	-1.02941	0	1	1	no
spsC	0.373012	0.1831	-1.02659	0	1	1	no
yycD	5.95648	2.93163	-1.02275	-0.70893	0.28745	0.455964	no
trpF	12.3618	6.08817	-1.02181	-1.27198	0.07555	0.186084	no
ydck	5.96635	2.94092	-1.02058	-1.87786	0.01225	0.050599	no
ydzT	11.5053	5.68551	-1.01694	-1.61277	0.03555	0.110344	no
araB	0.560996	0.277358	-1.01624	-1.45844	0.04915	0.138379	no
spmA	0.727166	0.360339	-1.01293	-0.75854	0.2526	0.41606	no
xkdU	3.8671	1.91746	-1.01206	-1.03252	0.1504	0.300317	no
yrbD	1.00679	0.499932	-1.00995	-1.76877	0.0192	0.06974	no
ykvN	5.31897	2.64273	-1.00912	-1.44374	0.04945	0.138416	no
mdxK	0.915279	0.457441	-1.00063	-1.76478	0.0156	0.060741	no
-	19.7392	9.87085	-0.99981	-5.18372	0.4569	0.614778	no
yhgB	3.13219	1.57258	-0.99404	-0.97832	0.2035	0.365322	no
mdxF	0.605713	0.304311	-0.99309	-1.29571	0.08125	0.195596	no
bglS	2.81546	1.41573	-0.99183	-1.83967	0.0144	0.057508	no
dacF	0.287619	0.144764	-0.99046	0	1	1	no
spoIIM	0.510786	0.257453	-0.98841	-0.7412	0.33355	0.501197	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yxjC	0.185872	0.093691	-0.98833	0	1	1	no
cyeB	0.516488	0.260971	-0.98485	-0.92571	0.1947	0.355159	no
queC	6.41319	3.24313	-0.98366	-1.30445	0.0795	0.192762	no
pyrC	55.225	27.9659	-0.98166	-1.2038	0.0861	0.204125	no
yesS	0.300555	0.152275	-0.98095	0	1	1	no
yraM	0.453356	0.229989	-0.97908	0	1	1	no
trnD-Leu1	863.664	440.298	-0.97199	-1.76878	0.0185	0.068175	no
yheJ	24.2462	12.3667	-0.97129	-0.94051	0.21775	0.383347	no
bofC	4.38054	2.23614	-0.9701	-1.75306	0.0179	0.066705	no
yrhD	1.11533	0.572283	-0.96267	-0.86994	0.23725	0.402861	no
araN	0.284736	0.146121	-0.96247	0	1	1	no
sodF	0.34455	0.177076	-0.96035	0	1	1	no
ywhK	0.418425	0.215467	-0.95751	0	1	1	no
ylzH	22.3295	11.513	-0.95569	-0.90368	0.2236	0.389321	no
ykzN	11.1494	5.75179	-0.95489	-0.61651	0.38075	0.544244	no
glpQA	0.882938	0.456611	-0.95135	-1.20964	0.0999	0.226077	no
stoA	1.2205	0.631499	-0.95062	-0.88675	0.1968	0.357244	no
ydfK	1.33749	0.692706	-0.94922	-1.24356	0.08605	0.204125	no
yizA	1.44056	0.746567	-0.94829	-0.9643	0.177	0.333797	no
glpP	1.1887	0.61643	-0.94738	-1.6498	0.0235	0.081099	no
manA	0.495711	0.257848	-0.94298	0	1	1	no
ldcA	3.58146	1.86332	-0.94267	-1.41446	0.0531	0.144305	no
yhxC	0.77598	0.404245	-0.94079	-1.11429	0.13095	0.272661	no
mstX	0.756866	0.394796	-0.93893	-0.49851	0.62695	0.755659	no
narJ	0.28357	0.147959	-0.93851	0	1	1	no
malA	0.96627	0.504977	-0.93621	-1.56572	0.0341	0.107542	no
yobN	1.23985	0.651862	-0.92752	-1.75496	0.017	0.064774	no
ytfJ	0.891192	0.470833	-0.92052	-0.71318	0.32535	0.493319	no
spoVAEA	0.50063	0.264763	-0.91905	0	1	1	no
ebrB	3.5095	1.86449	-0.91248	-1.0795	0.13035	0.272219	no
spoVAA	0.301183	0.160697	-0.9063	0	1	1	no
ywhL	0.651592	0.348408	-0.90319	-1.27919	0.0828	0.198699	no
ybcI	1.73429	0.92842	-0.90149	-0.80348	0.25325	0.416377	no
yhaR	1.59128	0.852076	-0.90113	-1.36921	0.0601	0.157483	no
yisZ	0.874731	0.469582	-0.89746	-0.7316	0.25785	0.422101	no
yyaM	1.07551	0.577543	-0.89702	-1.23351	0.10175	0.229291	no
yvrP	55.6456	29.9123	-0.89553	-1.66792	0.01755	0.065994	no
ydbS	29.0295	15.6286	-0.89333	-1.62932	0.02395	0.082423	no
ydzT	56.4051	30.3668	-0.89333	-0.83924	0.2186	0.383933	no
ydeF	1.54654	0.834448	-0.89015	-1.83605	0.0132	0.053517	no
rhgZ	0.133657	0.072133	-0.88981	0	1	1	no
trnD-Phe	515.689	278.438	-0.88915	-0.96284	0.17215	0.328226	no
yfiF	0.245932	0.133147	-0.88524	0	1	1	no
yisT	3.82966	2.07502	-0.88409	-1.52311	0.036	0.111463	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yfnG	0.260918	0.141499	-0.8828	0	1	1	no
yvzH	97.1985	52.8404	-0.87929	-0.47179	0.5042	0.655074	no
yqaC	2.22159	1.21027	-0.87627	-1.22044	0.0882	0.207654	no
yqgL	2.99374	1.63501	-0.87265	-1.05647	0.15065	0.300656	no
yxeA	1.09745	0.59939	-0.87259	-0.5834	0.43635	0.598359	no
spoVFB	0.282157	0.154191	-0.87178	0	1	1	no
yhbD	2.13759	1.16862	-0.87118	-1.17259	0.1038	0.231812	no
yyaR	1.68655	0.923379	-0.86908	-1.05679	0.14435	0.291984	no
yddS	0.988501	0.541317	-0.86877	-1.44695	0.043	0.127027	no
ykvP	0.61461	0.337249	-0.86586	-1.11948	0.11685	0.252061	no
cotE	1.61939	0.890919	-0.86208	-1.07071	0.13805	0.283386	no
yaaH	0.538745	0.297104	-0.85864	-1.07146	0.12995	0.271839	no
ydfB	0.707778	0.390549	-0.8578	-0.93634	0.20215	0.363597	no
tyrZ	1.12938	0.623499	-0.85707	-1.48834	0.03925	0.118289	no
yhjR	0.516547	0.285403	-0.8559	-0.45852	0.5053	0.656275	no
trnE-Arg	288.525	159.425	-0.85581	-1.22142	0.3102	0.47949	no
clsB	0.122417	0.067653	-0.85558	0	1	1	no
ynzC	22.3548	12.4352	-0.84615	-1.43724	0.0503	0.139851	no
yizC	14.357	7.99985	-0.84371	-0.91711	0.2113	0.375354	no
yrzM	3.05823	1.70993	-0.83876	-0.82342	0.2435	0.408092	no
yktD	1.96481	1.10033	-0.83646	-1.5569	0.0323	0.104152	no
yvmB	1.83708	1.03085	-0.83357	-1.02063	0.14475	0.292147	no
yfiV	2.92769	1.64349	-0.833	-1.24494	0.0869	0.205476	no
capB	1.22518	0.689748	-0.82885	-1.45304	0.04495	0.130719	no
yeeK	2.06602	1.16494	-0.8266	-0.98157	0.178	0.335175	no
yerD	1.31512	0.741768	-0.82616	-1.70643	0.01875	0.068842	no
ytnJ	0.521094	0.295002	-0.82082	-1.03635	0.14085	0.287286	no
rghRB	8.76734	4.97519	-0.81739	-1.727	0.01775	0.066279	no
yfkR	1.0134	0.576628	-0.81349	-1.28882	0.07545	0.185961	no
ywmF	0.720281	0.41036	-0.81167	-0.58497	0.381	0.544244	no
acoR	0.468369	0.266934	-0.81116	0	1	1	no
azlB	4.0489	2.30937	-0.81003	-1.39675	0.05645	0.15056	no
yhcN	0.614949	0.351003	-0.80898	-0.65984	0.35235	0.518333	no
yqgE	0.374814	0.214068	-0.80811	0	1	1	no
srtA	4.55011	2.59878	-0.80807	-1.14481	0.1075	0.237518	no
yisV	1.16648	0.666603	-0.80727	-1.55323	0.03465	0.108725	no
alkA	2.12017	1.21332	-0.80523	-1.55816	0.03275	0.104859	no
ywrJ	0.493643	0.282893	-0.80321	0	1	1	no
ymzA	23.5625	13.5055	-0.80295	-1.37053	0.0547	0.147048	no
gdh	0.216059	0.124702	-0.79295	0	1	1	no
sigG	1.77484	1.02635	-0.79016	-1.30614	0.0656	0.168931	no
ypeQ	22.2108	12.8703	-0.78722	-0.70317	0.3105	0.47949	no
ydaB	1.51421	0.877712	-0.78675	-1.70219	0.0198	0.071227	no
rsiV	0.490787	0.284847	-0.78491	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
spsK	0.823302	0.479847	-0.77885	-0.87555	0.22375	0.389321	no
ytvA	2.37664	1.38576	-0.77825	-1.47771	0.045	0.130763	no
yyaQ	9.71354	5.66509	-0.7779	-1.50608	0.03995	0.119722	no
mmgF	0.605634	0.35323	-0.77784	-0.85725	0.21915	0.384542	no
trnSL-Val1	2184.03	1275.34	-0.77612	-1.64265	0.02435	0.083339	no
yhjC	80.622	47.0896	-0.77577	-0.97076	0.1801	0.336921	no
yqjP	2.85255	1.66933	-0.77298	-1.72888	0.0174	0.065761	no
yeeD	12.8057	7.50747	-0.77039	-1.45123	0.04535	0.131473	no
spoVR	0.27797	0.163018	-0.7699	0	1	1	no
pcp	5.75651	3.38606	-0.76559	-1.40217	0.0482	0.136554	no
spolIIAH	0.698143	0.410731	-0.76533	-0.69721	0.30295	0.473114	no
phoA	1.01772	0.599862	-0.76264	-1.35617	0.0589	0.155429	no
yetI	4.46832	2.63455	-0.76217	-1.37771	0.05345	0.14494	no
trnB-Glu	1207.88	713.519	-0.75945	-1.14733	0.10415	0.232454	no
yqal	2.5714	1.52234	-0.75627	-1.3323	0.48515	0.638995	no
glnM	0.077531	0.0459	-0.75627	0	1	1	no
sspK	2.99806	1.77493	-0.75627	0	1	1	no
sspO	3.45828	2.04739	-0.75627	0	1	1	no
ypzC	13.836	8.19678	-0.7553	-0.9714	0.1716	0.327919	no
yhdW	7.97164	4.72616	-0.75421	-1.69939	0.01735	0.065761	no
yrdR	0.757358	0.449602	-0.75233	-0.97649	0.1761	0.332604	no
ynzJ	13.6276	8.09036	-0.75226	-0.36508	0.38405	0.547136	no
narK	0.450021	0.267504	-0.75044	0	1	1	no
tuaA	7.26114	4.31815	-0.74978	-0.27179	0.6388	0.765003	no
degQ	14.1191	8.40151	-0.74893	-0.42305	0.51885	0.668756	no
glgD	0.81767	0.486631	-0.74869	-0.73938	0.3121	0.481165	no
ydzU	5.55266	3.31216	-0.74541	-0.64333	0.36385	0.529056	no
rhgQ	0.113661	0.0678	-0.74538	0	1	1	no
bpsB	0.656466	0.392056	-0.74366	-0.55231	0.40895	0.571489	no
yknV	1.48591	0.887424	-0.74365	-1.72858	0.01905	0.069398	no
yngE	0.149998	0.089596	-0.74343	0	1	1	no
pbuE	0.333593	0.19932	-0.743	0	1	1	no
sacP	1.161	0.693884	-0.7426	-0.40668	0.41165	0.573759	no
yojJ	0.39186	0.234472	-0.74092	0	1	1	no
ydzR	0.921211	0.551892	-0.73915	0	1	1	no
yqbR	0.612129	0.366919	-0.73837	0	1	1	no
mmgC	0.046377	0.027832	-0.73668	0	1	1	no
znuC	4.65594	2.80095	-0.73316	-1.08607	0.12725	0.268296	no
yqbE	0.563089	0.338789	-0.73297	-0.79859	0.2647	0.429151	no
frIM	1.31576	0.791821	-0.73265	-1.18654	0.09865	0.224244	no
spolIQ	2.2825	1.37398	-0.73225	-1.43069	0.0473	0.13586	no
bltR	1.06667	0.642633	-0.73104	-0.9955	0.15795	0.311561	no
rsml	9.76828	5.9036	-0.72651	-1.751	0.01515	0.05936	no
yabB	10.0268	6.06908	-0.72431	-1.58076	0.0254	0.086379	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
rhaD	1.55083	0.941294	-0.72033	-1.79427	0.0128	0.052292	no
addB	6.00945	3.65581	-0.71704	-1.63074	0.02215	0.077297	no
yoaN	0.182559	0.111079	-0.71677	0	1	1	no
spoVAF	1.92296	1.17091	-0.7157	-1.66357	0.0197	0.070935	no
yitQ	6.51652	3.96966	-0.71509	-1.4951	0.03445	0.108189	no
tuaB	0.563763	0.343983	-0.71275	-0.9517	0.18265	0.340327	no
yxjO	1.90426	1.16193	-0.7127	-1.31232	0.06705	0.171483	no
czcD	0.438615	0.267651	-0.7126	0	1	1	no
ykoG	1.48932	0.909452	-0.71158	-1.0432	0.1443	0.291984	no
pyrAA	68.3588	41.7925	-0.70988	-0.92994	0.1917	0.351576	no
ykuT	4.2136	2.5768	-0.70948	-1.68182	0.02105	0.074292	no
yjIB	2.1763	1.33264	-0.70759	-0.97897	0.1739	0.330454	no
yjcR	0.440589	0.269794	-0.70757	0	1	1	no
ytmO	0.568866	0.349035	-0.70472	-0.66627	0.3343	0.502122	no
nrnB	0.701786	0.430857	-0.70382	-1.00392	0.15755	0.311265	no
ywhA	8.20792	5.04451	-0.7023	-1.48656	0.04035	0.120823	no
queE	11.0174	6.77695	-0.70108	-1.66546	0.01965	0.070824	no
yknT	0.706113	0.4352	-0.69822	-0.87708	0.2213	0.38668	no
araL	0.585289	0.360737	-0.69821	-0.63685	0.36095	0.526068	no
yoZ	7.83201	4.82758	-0.69808	-0.89267	0.2156	0.381179	no
spsD	0.553614	0.341424	-0.69732	-0.69023	0.3244	0.492906	no
hutM	0.617375	0.380985	-0.69641	-1.03527	0.1488	0.297759	no
yocM	4.17889	2.58401	-0.69351	-1.15115	0.1077	0.237819	no
trnB-Gly1	1553.03	962.046	-0.69091	-1.26562	0.0794	0.192644	no
ypuB	5.25476	3.26862	-0.68494	-0.62823	0.6184	0.74971	no
trnD-Gly	1430.56	891.142	-0.68285	-1.22099	0.08445	0.201751	no
yrbE	3.85419	2.40427	-0.68083	-1.74392	0.015	0.05902	no
ycdC	3.01132	1.87951	-0.68004	-1.79129	0.014	0.056211	no
lytG	4.88877	3.05369	-0.67892	-1.74105	0.01595	0.061781	no
acoC	0.432844	0.270613	-0.67762	0	1	1	no
yocN	14.9356	9.33959	-0.67733	-0.98645	0.1684	0.324127	no
xkdW	5.88553	3.68412	-0.67585	-0.92323	0.1878	0.346557	no
cotB	0.536276	0.335784	-0.67544	-0.84468	0.235	0.40123	no
rsfA	0.544821	0.341687	-0.67311	-0.64536	0.3663	0.531533	no
ganR	2.15052	1.34954	-0.67221	-1.40516	0.0537	0.145301	no
xkzA	14.7138	9.23472	-0.67203	-0.6104	0.38495	0.547739	no
bacA	20.5888	12.9232	-0.6719	-1.7037	0.0175	0.065872	no
yfnD	0.551237	0.346285	-0.67071	-0.73457	0.2989	0.469103	no
dacB	0.555846	0.349605	-0.66896	-0.80871	0.2668	0.431269	no
trnO-Ile	3182.01	2003	-0.66778	-1.65304	0.0229	0.079322	no
ywaE	10.7288	6.75358	-0.66776	-1.74369	0.0163	0.062811	no
rbsR	2.44054	1.5379	-0.66623	-1.43879	0.0473	0.13586	no
sinI	16.6881	10.5238	-0.66517	-0.62281	0.37	0.534667	no
ywqO	5.33468	3.36506	-0.66477	-0.50075	0.46765	0.62476	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
albB	72.684	45.8934	-0.66335	-0.60954	0.38475	0.547715	no
gerQ	0.189786	0.119836	-0.66331	0	1	1	no
abfA	0.504876	0.318888	-0.66288	0	1	1	no
txpA	73.9732	46.8272	-0.65966	-1.31179	0.07075	0.178019	no
oatA	0.656429	0.416208	-0.65734	-1.15499	0.1034	0.231557	no
xkdJ	7.72328	4.9002	-0.65637	-1.40781	0.04875	0.137799	no
polYA	2.05206	1.30267	-0.6556	-1.48381	0.03915	0.118274	no
yneQ	7.40799	4.70421	-0.65513	-0.95984	0.16825	0.324005	no
ytzl	29.4368	18.6957	-0.65491	-0.63461	0.38015	0.543934	no
yfkD	1.21063	0.769239	-0.65426	-0.94885	0.1794	0.336285	no
yyzN	38.011	24.1552	-0.65408	-0.79658	0.2434	0.408092	no
yfiU	2.00004	1.27136	-0.65365	-1.1652	0.10025	0.226731	no
yycO	0.576363	0.366557	-0.65294	-0.6229	0.3728	0.537051	no
yqhB	1.26606	0.805751	-0.65194	-1.27305	0.07995	0.193601	no
iolT	0.221069	0.140764	-0.65122	0	1	1	no
mdxM	1.0356	0.659777	-0.65042	-0.58616	0.40925	0.571551	no
yczO	51.4246	32.7826	-0.64953	-0.97764	0.15965	0.313193	no
ogt	5.63196	3.59393	-0.64807	-0.86917	0.2159	0.381256	no
yjbl	14.3833	9.18754	-0.64664	-1.08771	0.12695	0.267814	no
lytH	0.686934	0.439144	-0.64548	-0.81711	0.25235	0.416015	no
ykkA	1.38846	0.889493	-0.64243	-0.69182	0.3314	0.499575	no
yvjA	2.6821	1.7195	-0.64138	-1.33361	0.06225	0.162093	no
bmrR	1.80885	1.16196	-0.63852	-1.13542	0.10615	0.235791	no
pucE	0.380846	0.244839	-0.63738	0	1	1	no
ynzB	4.65387	2.99262	-0.63702	-0.34999	0.5778	0.719648	no
acoL	0.288776	0.185909	-0.63536	0	1	1	no
yfkM	3.6522	2.35414	-0.63357	-1.13753	0.1088	0.239257	no
ylaK	1.58257	1.02026	-0.63334	-1.35378	0.0573	0.152392	no
yticD	2.11423	1.36577	-0.63042	-0.67076	0.3419	0.509574	no
trnB-Pro	769.398	498.068	-0.62739	-0.89746	0.20435	0.366323	no
parB	38.0813	24.6715	-0.62624	-1.68822	0.01805	0.067063	no
ywlG	6.99415	4.534	-0.62536	-1.48136	0.0384	0.117298	no
nprB	0.826955	0.537828	-0.62067	-1.12393	0.11575	0.250412	no
ydfM	1.21971	0.794171	-0.61901	-0.97566	0.16795	0.323761	no
ydhJ	2.60135	1.69428	-0.61859	-1.36513	0.05745	0.152682	no
ybcM	1.1699	0.762437	-0.6177	-0.40783	0.5517	0.697675	no
yozM	1.99676	1.30139	-0.61762	-0.57668	0.4215	0.583567	no
cotX	0.425632	0.277459	-0.61733	0	1	1	no
yhzB	2.34081	1.52727	-0.61606	-1.03688	0.139	0.284554	no
rbsK	4.26755	2.79027	-0.613	-1.44919	0.0414	0.123473	no
yunB	0.873299	0.571078	-0.61279	-0.73878	0.2884	0.457276	no
yczG	12.982	8.49437	-0.61193	-1.22218	0.08865	0.20845	no
spolISB	52.9306	34.6677	-0.61051	-0.61373	0.3866	0.548675	no
capA	0.402204	0.264248	-0.60603	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
rnmV	9.60112	6.30849	-0.60591	-1.16313	0.10155	0.229116	no
trnSL-Gln2	5468.59	3593.33	-0.60585	-1.72617	0.01565	0.060809	no
yulB	2.32306	1.52698	-0.60534	-1.15	0.11	0.240903	no
yqzM	118.434	77.861	-0.60512	-0.97587	0.1717	0.327943	no
yjcl	2.74916	1.81001	-0.60299	-1.48911	0.03655	0.113072	no
putB	1.13974	0.750785	-0.60224	-0.92772	0.1993	0.360032	no
ylaC	1.49617	0.987793	-0.59899	-0.65717	0.3413	0.509507	no
ytnM	0.546164	0.362591	-0.59099	-0.64659	0.3479	0.515165	no
ycxC	0.867761	0.577914	-0.58644	-0.82092	0.22395	0.389487	no
iolJ	0.99853	0.665483	-0.5854	-0.82474	0.22515	0.390665	no
abh	45.2573	30.1696	-0.58505	-1.59703	0.0226	0.078501	no
yqxH	0.354601	0.236396	-0.58499	0	1	1	no
yqzI	17.0289	11.3561	-0.58451	-0.48083	0.5204	0.670022	no
aroK	7.50398	5.00693	-0.58373	-1.43774	0.04235	0.125604	no
xkdH	14.5013	9.68612	-0.58219	-0.87892	0.2251	0.390665	no
ypoP	21.0486	14.0595	-0.58218	-1.68241	0.01935	0.070013	no
bmr	3.87838	2.5915	-0.58167	-1.5872	0.0281	0.093433	no
xlyA	7.47542	4.99732	-0.581	-1.71745	0.0161	0.062105	no
secE	75.4363	50.436	-0.5808	-1.18971	0.0983	0.223676	no
yqzD	40.8849	27.3562	-0.5797	-1.29403	0.06745	0.172034	no
yndE	0.288394	0.192969	-0.57967	0	1	1	no
xkdI	7.28022	4.87342	-0.57905	-0.98746	0.16935	0.325452	no
yjdJ	7.46602	5.00053	-0.57826	-0.97459	0.17	0.325695	no
fdhD	3.54303	2.37579	-0.57658	-1.3	0.07025	0.17688	no
tuaF	0.808503	0.542192	-0.57645	-0.64173	0.3863	0.548458	no
yodE	1.78316	1.19585	-0.5764	-1.08254	0.12505	0.265456	no
ydhD	0.496109	0.332775	-0.57611	0	1	1	no
ybfN	0.834841	0.56023	-0.57548	-0.3348	0.4702	0.627493	no
ylaB	0.916498	0.615026	-0.57548	-0.23353	0.77465	0.865254	no
yhdK	6.59805	4.4295	-0.5749	-0.46285	0.51765	0.66744	no
tgl	0.706247	0.474248	-0.57453	-0.62571	0.39125	0.552336	no
ykvT	0.235502	0.158427	-0.57191	0	1	1	no
yozJ	0.514214	0.346327	-0.57023	0	1	1	no
padR	4.36471	2.9426	-0.5688	-1.14795	0.10835	0.238549	no
ydzW	163.187	110.309	-0.56498	-0.44496	0.5363	0.684865	no
yslB	20.932	14.15	-0.56491	-1.67177	0.01745	0.065872	no
yfhP	4.66763	3.15713	-0.56408	-1.11874	0.1132	0.246322	no
yjdG	10.9741	7.43527	-0.56164	-1.4858	0.03845	0.117298	no
xkdP	3.49637	2.37309	-0.55909	-0.71515	0.32425	0.492906	no
yxdJ	2.20241	1.49796	-0.55609	-0.85025	0.228	0.393684	no
yugS	0.671719	0.457079	-0.55541	-0.83245	0.232	0.397927	no
xlyB	3.71419	2.53037	-0.5537	-1.3928	0.04825	0.136592	no
tatAY	293.963	200.996	-0.54847	-1.64421	0.0216	0.07559	no
nucB	4.49905	3.07795	-0.54765	-0.90912	0.1931	0.353449	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywpF	26.2246	17.9415	-0.54763	-1.65137	0.02	0.07167	no
trmB	15.2205	10.4343	-0.54468	-1.7308	0.01515	0.05936	no
ctsR	13.8871	9.53291	-0.54276	-1.46934	0.03935	0.118494	no
ywzC	17.023	11.689	-0.54233	-0.82592	0.23965	0.404278	no
levE	3.01811	2.07353	-0.54156	-0.72344	0.3042	0.473482	no
yurJ	2.52726	1.73789	-0.54024	-1.26416	0.0767	0.187802	no
fadE	0.681461	0.468612	-0.54024	-0.95231	0.1789	0.336022	no
yhzD	7.19516	4.95087	-0.53934	-0.37758	0.59715	0.735408	no
yrhE	0.975918	0.67154	-0.53929	-1.33606	0.05815	0.154104	no
yvbU	0.777605	0.535764	-0.53744	-0.68009	0.3308	0.499275	no
ygzC	2.11041	1.45449	-0.53701	-0.37586	0.59715	0.735408	no
yjpA	10.0815	6.96449	-0.53362	-0.76783	0.27155	0.436303	no
putC	2.01341	1.3911	-0.53341	-1.32176	0.06095	0.159041	no
nnrA	1.12057	0.775455	-0.53112	-0.77524	0.26345	0.428637	no
frlN	1.53593	1.0634	-0.53043	-0.92572	0.19165	0.351576	no
yqcA	0.35785	0.247876	-0.52974	0	1	1	no
ykrP	0.328538	0.227587	-0.52964	0	1	1	no
nudF	11.956	8.28803	-0.52864	-1.09269	0.1189	0.255303	no
dppA	12.1168	8.41147	-0.52658	-1.72791	0.01665	0.063896	no
ydfP	8.37896	5.81724	-0.52644	-1.08836	0.13125	0.273029	no
mpr	8.64831	6.02105	-0.52241	-1.50416	0.03305	0.105478	no
yqeC	1.19455	0.8319	-0.52199	-0.829	0.23635	0.402149	no
ykuD	0.505075	0.351769	-0.52187	0	1	1	no
trnE	12.8551	8.95376	-0.52177	-1.41352	0.04795	0.136364	no
yqeB	13.4795	9.39407	-0.52094	-1.67714	0.0188	0.068958	no
msrA	11.1034	7.74073	-0.52046	-1.40475	0.04895	0.13826	no
sapB	2.46893	1.72243	-0.51944	-0.97313	0.16955	0.325501	no
glcD	1.2321	0.861021	-0.517	-0.91837	0.1953	0.356079	no
ald	4.68068	3.27221	-0.51645	-1.47904	0.0378	0.115883	no
asnH	43.1863	30.2275	-0.51471	-1.64643	0.0181	0.067116	no
yuzA	12.5617	8.81306	-0.51132	-0.72271	0.302	0.472421	no
msmR	0.893074	0.626691	-0.51103	-0.76675	0.2814	0.448846	no
yeaC	4.38486	3.07812	-0.51048	-0.89617	0.20265	0.364146	no
ydaE	0.706217	0.496016	-0.50973	-0.40788	0.55445	0.699542	no
ykuH	19.4154	13.6397	-0.50938	-1.62294	0.02455	0.08387	no
tuaD	0.653983	0.459463	-0.50931	-0.79157	0.262	0.426836	no
trnD-Glu	863.778	607.877	-0.50688	-0.69664	0.3248	0.493009	no
liaG	8.66908	6.10593	-0.50567	-1.56086	0.02825	0.093682	no
yfzA	20.185	14.2172	-0.50565	-1.02258	0.1455	0.29304	no
cwIC	0.599612	0.422415	-0.50537	-0.51996	0.45755	0.615229	no
yoaZ	3.08952	2.18083	-0.5025	-0.96816	0.175	0.331532	no
proJ	7.744	5.47133	-0.50119	-1.40306	0.0477	0.136144	no
spoVFA	0.339505	0.240246	-0.49892	0	1	1	no
ymzB	13.2974	9.41266	-0.49847	-1.13551	0.11105	0.242492	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yrri	0.70821	0.501638	-0.49753	-0.69676	0.3138	0.482789	no
dnaB	6.26238	4.44874	-0.49331	-1.62889	0.0204	0.072685	no
dfrA	13.1575	9.35027	-0.4928	-1.07702	0.1292	0.27083	no
nrdR	7.13107	5.07037	-0.49203	-1.08026	0.1308	0.272661	no
ywqN	0.847666	0.603253	-0.49073	-0.46531	0.49395	0.646934	no
ybfB	3.0978	2.208	-0.48851	-1.04447	0.138	0.283386	no
spoVAD	0.266905	0.190479	-0.48669	0	1	1	no
yraE	2.295	1.63857	-0.48606	-0.29726	0.44855	0.609271	no
yozX	1.50328	1.07414	-0.48493	-0.28979	0.4557	0.61429	no
ioll	1.5896	1.13596	-0.48475	-0.84275	0.2371	0.40279	no
yjzl	16.1176	11.5183	-0.48471	-0.54182	0.4493	0.609828	no
mcsB	23.1303	16.531	-0.48461	-0.98101	0.16175	0.316014	no
iolD	1.17386	0.839315	-0.48397	-1.09338	0.1254	0.265595	no
manR	0.57333	0.410144	-0.48324	-0.84013	0.23965	0.404278	no
treR	6.90278	4.93845	-0.48312	-1.30618	0.06675	0.17095	no
yflN	0.440232	0.315118	-0.48237	0	1	1	no
yodT	0.05759	0.041226	-0.48225	0	1	1	no
ywjG	5.34528	3.82672	-0.48216	-1.02987	0.1434	0.29085	no
dhaS	7.7597	5.56453	-0.47974	-1.70018	0.016	0.061847	no
yrkQ	1.08655	0.780196	-0.47785	-0.81856	0.24025	0.404278	no
pucG	1.38924	0.997923	-0.4773	-0.96348	0.17385	0.330454	no
ypqP	5.37208	3.85914	-0.4772	-0.88891	0.21215	0.376416	no
gerKB	0.784957	0.564482	-0.47569	-0.71079	0.30375	0.473373	no
yxkA	0.613667	0.441595	-0.47473	-0.36739	0.61275	0.747349	no
yfkl	9.64638	6.94258	-0.47452	-0.88292	0.21575	0.381256	no
spollGA	1.58367	1.13989	-0.47438	-0.87874	0.2217	0.387016	no
yfmD	9.70162	6.98436	-0.4741	-1.18192	0.09335	0.216637	no
gntZ	9.38967	6.76277	-0.47346	-1.7288	0.01565	0.060809	no
ywnJ	4.33389	3.1225	-0.47296	-0.80957	0.2508	0.414558	no
yvlC	39.2773	28.3363	-0.47105	-0.85411	0.22375	0.389321	no
yugU	4.52957	3.27194	-0.46923	-0.77643	0.27105	0.435955	no
ybfG	2.49832	1.80629	-0.46793	-1.36949	0.0542	0.146019	no
ykfB	3.88582	2.81036	-0.46747	-0.95786	0.17245	0.328463	no
yoaW	2.40391	1.73928	-0.4669	-0.63521	0.37575	0.539914	no
ywmA	2.35253	1.70306	-0.46608	-0.66606	0.33185	0.499648	no
xtmB	2.35305	1.70598	-0.46393	-1.04981	0.139	0.284554	no
yhaH	32.1084	23.2968	-0.46282	-1.36648	0.05515	0.147832	no
ybgB	5.38252	3.90704	-0.46221	-0.56453	0.42605	0.587895	no
yeeC	4.45138	3.23222	-0.46173	-1.3111	0.0648	0.167681	no
yddQ	1.14868	0.834205	-0.46151	-0.52036	0.4557	0.61429	no
acpS	3.1786	2.30841	-0.46149	-0.59716	0.3908	0.552188	no
pksS	9.17145	6.66611	-0.4603	-1.60299	0.02555	0.086573	no
ytvB	2.64106	1.92173	-0.45871	-0.50452	0.4836	0.637853	no
yesJ	18.8766	13.7431	-0.45789	-1.44927	0.0437	0.128485	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ydhU	0.404567	0.294611	-0.45757	0	1	1	no
ykuJ	38.1952	27.8661	-0.45488	-1.03782	0.14205	0.289202	no
ccpB	1.67148	1.22038	-0.4538	-0.8614	0.22805	0.393684	no
trnI-Pro	692.458	505.697	-0.45345	-0.64297	0.3512	0.517514	no
bscR	2.88609	2.10971	-0.45207	-0.81552	0.24665	0.410607	no
groEL	138.791	101.461	-0.45199	-1.69742	0.0176	0.066115	no
liaS	4.24669	3.10473	-0.45187	-0.99777	0.15195	0.301959	no
yrzH	21.6945	15.8816	-0.44998	-0.29216	0.65035	0.774424	no
ydfG	8.11309	5.94153	-0.44942	-1.00847	0.15725	0.310837	no
citS	4.97483	3.64475	-0.44883	-1.37154	0.0512	0.141197	no
ydhE	1.66332	1.21914	-0.44821	-0.94829	0.1803	0.33705	no
fruK	4.61416	3.38255	-0.44796	-1.028	0.14715	0.295249	no
yqkD	2.94095	2.15678	-0.4474	-1.03757	0.1465	0.294103	no
yaal	1.99896	1.46625	-0.44712	-0.66623	0.3402	0.508829	no
melA	1.62981	1.19596	-0.44654	-0.97551	0.16985	0.325575	no
yhfN	1.09258	0.802112	-0.44587	-0.83714	0.23995	0.404278	no
speA	3.2651	2.40272	-0.44246	-1.25664	0.0761	0.186823	no
yerA	5.2278	3.84752	-0.44228	-1.48931	0.0377	0.115671	no
ykkD	1.43697	1.05865	-0.4408	-0.27967	0.6914	0.80342	no
yqfX	0.486034	0.35809	-0.44074	0	1	1	no
lytR	25.287	18.6407	-0.43994	-1.71577	0.0148	0.05848	no
yetN	1.69211	1.24738	-0.43993	-0.89554	0.2057	0.368032	no
trnB-Val	2722.98	2011.39	-0.437	-1.05085	0.14035	0.286846	no
ygaC	19.3937	14.328	-0.43675	-1.38634	0.0519	0.142287	no
yrpG	0.720436	0.532623	-0.43576	-0.5848	0.40685	0.569617	no
yncC	0.576896	0.426604	-0.43541	-0.64123	0.35485	0.519758	no
mdxL	0.735725	0.544292	-0.43479	-0.63798	0.3716	0.535879	no
yclN	25.6214	18.9666	-0.43389	-0.98739	0.1592	0.313035	no
xkdV	3.70501	2.74441	-0.43298	-1.39545	0.04735	0.135899	no
tagA	17.9164	13.2716	-0.43294	-1.54836	0.02745	0.091927	no
ymcC	1.23471	0.914832	-0.4326	-0.52113	0.46205	0.619941	no
ydzT	32.1117	23.8471	-0.42928	-0.50316	0.47125	0.628421	no
rocC	2.06547	1.5348	-0.42842	-0.85727	0.2245	0.390081	no
thyB	8.04155	5.9756	-0.42839	-1.05713	0.13505	0.279378	no
yvnB	0.755346	0.561363	-0.42821	-1.08845	0.12115	0.25924	no
yvgK	12.3798	9.2024	-0.42791	-1.48719	0.03435	0.108147	no
yxdM	0.46447	0.345282	-0.42781	0	1	1	no
proH	6.61406	4.91797	-0.42748	-0.9635	0.17145	0.3278	no
yfiQ	0.912257	0.678407	-0.42729	-0.68448	0.33105	0.499451	no
flgB	35.6918	26.5434	-0.42724	-1.03444	0.14095	0.287286	no
maa	3.53839	2.63179	-0.42705	-0.82049	0.2435	0.408092	no
mreD	37.25	27.708	-0.42694	-0.9039	0.19845	0.35954	no
ydhC	4.90337	3.65166	-0.42522	-1.01948	0.15345	0.304131	no
cycB	0.764547	0.569386	-0.4252	-0.67818	0.33855	0.507485	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
gerAB	1.2284	0.915401	-0.4243	-0.62164	0.3815	0.54475	no
trnSL-Glu1	617.55	460.444	-0.42353	-0.49272	0.4814	0.636591	no
sipV	8.27694	6.17347	-0.42302	-1.0472	0.14195	0.289166	no
acpK	12.1701	9.08272	-0.42214	-0.35565	0.60555	0.741293	no
yvzl	12.7709	9.54792	-0.4196	-0.50583	0.4653	0.622512	no
yojN	4.75949	3.55912	-0.41929	-1.13275	0.1098	0.240889	no
sbcD	5.82418	4.35704	-0.41871	-0.71662	0.29865	0.468948	no
ywbA	0.287962	0.215842	-0.4159	0	1	1	no
ywbB	2.46822	1.85036	-0.41566	-0.777	0.25915	0.423383	no
ppsC	0.310505	0.233097	-0.41369	0	1	1	no
yptA	23.0793	17.3338	-0.41301	-0.57436	0.4169	0.579347	no
yqaS	1.0164	0.764008	-0.41181	-0.44998	0.54605	0.692578	no
ymzD	14.5509	10.9477	-0.41048	-1.13659	0.11	0.240903	no
ybfH	3.10416	2.33699	-0.40956	-0.82208	0.25075	0.414558	no
yezA	19.3469	14.5712	-0.40898	-0.58351	0.3928	0.553618	no
yfkF	2.44759	1.84487	-0.40785	-0.98882	0.1595	0.313193	no
yisB	17.1862	12.9567	-0.40755	-0.89482	0.2066	0.368936	no
ispH	15.4174	11.6309	-0.4066	-1.49473	0.03405	0.107542	no
yozU	3.95263	2.98321	-0.40595	-0.26048	0.7217	0.828725	no
yefC	2.38348	1.79959	-0.4054	-0.34562	0.61885	0.749768	no
groES	459.385	346.942	-0.40501	-1.6337	0.02125	0.074575	no
xkdE	1.97204	1.49016	-0.40423	-0.99639	0.15965	0.313193	no
rpsR	832.235	628.931	-0.40409	-1.6324	0.021	0.074256	no
ybzH	22.3161	16.8681	-0.40378	-0.97257	0.16485	0.3196	no
dnaE	5.75286	4.35139	-0.4028	-1.57021	0.0281	0.093433	no
ypmR	7.36446	5.57128	-0.40257	-1.14977	0.1071	0.237055	no
katX	1.22474	0.92692	-0.40196	-0.87807	0.21825	0.383684	no
yngK	0.411793	0.3117	-0.40176	0	1	1	no
ydeH	10.1816	7.70896	-0.40135	-0.99192	0.1578	0.311528	no
ydhH	3.91151	2.96243	-0.40094	-0.75409	0.2837	0.45155	no
gamP	5.84942	4.43258	-0.40015	-1.42608	0.04245	0.1258	no
fhuD	26.1561	19.8241	-0.39989	-1.56985	0.02645	0.088977	no
ylbC	5.23712	3.96931	-0.39988	-1.15832	0.10185	0.229378	no
rtbl	3.88285	2.94727	-0.39774	-1.2531	0.08045	0.194298	no
spsJ	0.6765	0.513818	-0.39683	-0.49505	0.4755	0.632082	no
yugO	0.41011	0.31155	-0.39655	0	1	1	no
gcaD	49.4437	37.6031	-0.39494	-1.60049	0.0241	0.082711	no
yesM	0.298129	0.226863	-0.39411	0	1	1	no
trnB-Asp	20062	15269	-0.39386	-1.48779	0.0332	0.105685	no
yczJ	56.5492	43.0459	-0.39363	-1.17834	0.0988	0.224244	no
rttN	14.9822	11.4214	-0.39151	-1.41314	0.04555	0.131746	no
tagB	8.21671	6.27094	-0.38988	-1.30494	0.0668	0.17096	no
malQ	1.44807	1.10623	-0.38849	-0.72353	0.29485	0.464348	no
ssbA	673.93	514.882	-0.38836	-1.43736	0.04115	0.122923	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
panE	7.20526	5.50555	-0.38817	-1.16544	0.09945	0.225468	no
abnB	0.763426	0.583388	-0.38803	-0.65684	0.3421	0.509574	no
glmS	29.979	22.9285	-0.38681	-1.564	0.02805	0.093433	no
acuB	2.41642	1.84869	-0.38636	-0.54376	0.43675	0.598687	no
yfmE	13.7204	10.4981	-0.3862	-1.16367	0.0954	0.21962	no
ydeN	7.60124	5.81928	-0.38539	-0.98908	0.1619	0.316014	no
yugH	36.1315	27.6626	-0.38532	-1.55006	0.0289	0.095583	no
ykyA	5.18464	3.97021	-0.38503	-0.94405	0.1851	0.343521	no
cggR	18.3557	14.0616	-0.38446	-1.47861	0.0375	0.115342	no
refZ	10.0232	7.6816	-0.38387	-0.91129	0.1966	0.357055	no
glnL	1.49315	1.14461	-0.38351	-0.70406	0.31365	0.482757	no
ykoP	0.348178	0.267008	-0.38294	0	1	1	no
yphA	0.30616	0.234791	-0.38291	0	1	1	no
yhcY	5.96893	4.57996	-0.38214	-0.94443	0.17575	0.332447	no
xkdS	12.05	9.24835	-0.38177	-0.70235	0.3227	0.491801	no
glsB	1.03985	0.798309	-0.38136	-0.59999	0.39365	0.554257	no
malP	0.387149	0.297229	-0.38132	0	1	1	no
ydfD	0.687208	0.527683	-0.38108	-0.63251	0.37965	0.543772	no
yqiK	2.67637	2.05589	-0.38052	-0.77145	0.27795	0.444181	no
yobD	3.84703	2.95659	-0.37981	-0.5008	0.4807	0.636276	no
yveG	2.8203	2.17279	-0.3763	-0.34573	0.61805	0.74971	no
ntdC	1.96306	1.51272	-0.37596	-0.8115	0.24995	0.414235	no
tRNA-Ile	3055.61	2355.24	-0.37559	-0.95577	0.16825	0.324005	no
fadF	0.499454	0.38502	-0.37542	0	1	1	no
trnD-His	5187.29	4000.29	-0.37487	-1.0691	0.12765	0.268532	no
ywhD	17.0115	13.1321	-0.37341	-1.14001	0.1117	0.243626	no
tagE	12.1937	9.41508	-0.37309	-1.06598	0.12755	0.268473	no
yyaH	5.66222	4.37325	-0.37266	-0.65995	0.35315	0.518954	no
bsuMA	11.1448	8.60973	-0.37233	-1.38258	0.04905	0.138333	no
yesV	0.204788	0.158427	-0.37031	0	1	1	no
ygzB	55.9495	43.3274	-0.36885	-1.27382	0.07255	0.181205	no
ytrP	5.29169	4.10155	-0.36756	-1.24984	0.07685	0.187923	no
spoOE	54.5436	42.2804	-0.36742	-1.01772	0.15085	0.300894	no
phoP	10.7903	8.37083	-0.36629	-0.82422	0.2381	0.403275	no
des	2.76661	2.14651	-0.36612	-0.89255	0.2019	0.363498	no
xkdf	6.37337	4.94941	-0.3648	-1.03145	0.14455	0.292116	no
yqaO	53.441	41.5134	-0.36437	-0.79748	0.26585	0.429919	no
trnB-Phe	341.91	265.622	-0.36424	-0.36888	0.5986	0.736469	no
rppG	3.8147	2.96392	-0.36406	-0.65468	0.3461	0.513852	no
pksF	5.58955	4.34337	-0.36392	-1.07992	0.1281	0.268978	no
yvdR	0.935764	0.727183	-0.36383	-0.16406	0.79935	0.88011	no
abnA	0.146903	0.114187	-0.36346	0	1	1	no
yodD	5.29591	4.11926	-0.3625	-0.84931	0.2308	0.396233	no
yyaE	4.456	3.46707	-0.36203	-1.23019	0.0807	0.194529	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ydeI	2.69768	2.09979	-0.36148	-0.65566	0.36155	0.526121	no
fruR	4.57098	3.55908	-0.361	-0.72551	0.30605	0.475646	no
yhzF	8.31351	6.47391	-0.36082	-0.30721	0.67225	0.791356	no
cotS	0.326025	0.254162	-0.35923	0	1	1	no
tetB	7.10087	5.53724	-0.35883	-1.22839	0.08395	0.200942	no
nfo	20.5275	16.0106	-0.35853	-1.37111	0.0528	0.143909	no
yisP	2.09512	1.63425	-0.3584	-0.70719	0.32245	0.491801	no
yhjN	3.72491	2.90623	-0.35806	-0.98645	0.16345	0.318042	no
yvID	46.2683	36.1024	-0.35793	-1.18815	0.092	0.214303	no
xkdT	5.03005	3.9281	-0.35674	-0.84374	0.2307	0.396233	no
cotA	0.684959	0.535168	-0.35602	-0.60727	0.38975	0.551543	no
gerM	0.295181	0.230757	-0.35523	0	1	1	no
cwkK	3.92019	3.06722	-0.35399	-0.66704	0.34675	0.514352	no
yrkF	0.281178	0.220067	-0.35354	0	1	1	no
gerKC	0.536327	0.420737	-0.3502	-0.46206	0.50225	0.653678	no
liaF	5.00717	3.92805	-0.35018	-0.67278	0.34205	0.509574	no
yqgQ	32.1376	25.2126	-0.35011	-0.673	0.3478	0.515165	no
yoZG	4.74607	3.72367	-0.35001	-0.35406	0.6133	0.747409	no
cypX	6.84646	5.37351	-0.34949	-1.14642	0.1035	0.231557	no
spolISA	7.70424	6.04814	-0.34916	-0.91662	0.1957	0.35646	no
frlR	6.36574	5.0008	-0.34817	-0.94496	0.18	0.336902	no
yloB	0.955825	0.751034	-0.34787	-0.84733	0.23555	0.401435	no
ycgT	20.2252	15.8922	-0.34784	-1.34973	0.05185	0.142254	no
srtN	4.9532	3.89649	-0.34619	-0.88225	0.21285	0.377389	no
yetI	14.9102	11.7311	-0.34597	-0.63365	0.3758	0.539914	no
yisR	2.16224	1.7019	-0.34538	-0.70744	0.32395	0.492797	no
ydeJ	6.18514	4.86939	-0.34507	-0.89587	0.21085	0.37509	no
yqfT	9.01986	7.10457	-0.34436	-0.48095	0.48995	0.64402	no
cdd	43.5134	34.2851	-0.34388	-0.6948	0.3312	0.499475	no
lysP	7.09767	5.59394	-0.34348	-1.18851	0.0953	0.21962	no
cshB	9.82393	7.74623	-0.34281	-1.25659	0.07115	0.178664	no
trnB-His	2959.89	2336.2	-0.34138	-0.82749	0.2417	0.406352	no
liaI	12.8549	10.1508	-0.34072	-0.82099	0.24465	0.408735	no
yhaA	14.4584	11.4197	-0.34038	-1.30339	0.06805	0.173328	no
ksgA	4.68491	3.70381	-0.33901	-0.65606	0.35245	0.518333	no
thrZ	1.06272	0.840237	-0.33889	-0.7533	0.29155	0.460901	no
mcsA	9.8656	7.80546	-0.33792	-0.28871	0.68155	0.796778	no
lytT	4.80788	3.80492	-0.33754	-0.63008	0.3665	0.531533	no
dusC	7.57422	5.99829	-0.33655	-1.05538	0.1358	0.279998	no
yKzU	6.3707	5.04666	-0.33612	-0.77124	0.2703	0.435231	no
xhIB	39.0945	30.9715	-0.33602	-0.86661	0.22005	0.385216	no
pksA	7.29117	5.78091	-0.33485	-0.87974	0.2111	0.375354	no
yqeI	45.9539	36.4483	-0.33434	-0.64184	0.3668	0.531689	no
copZ	19.9417	15.8304	-0.33309	-0.50925	0.475	0.631642	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yknW	230.83	183.246	-0.33304	-1.32879	0.05965	0.156965	no
swrAA	22.1378	17.5815	-0.33245	-0.80349	0.24955	0.413774	no
ytdA	0.232704	0.184827	-0.33232	0	1	1	no
ywkD	3.73934	2.9703	-0.33218	-0.50793	0.477	0.632949	no
ylxW	7.7689	6.17217	-0.33193	-0.7362	0.2982	0.468439	no
yxjF	1.11818	0.888781	-0.33125	-0.48667	0.4779	0.633693	no
yodL	4.79266	3.81218	-0.33021	-0.44985	0.5155	0.666075	no
fbpA	81.6154	64.9322	-0.32991	-0.55818	0.42925	0.59101	no
yneR	9.7995	7.80026	-0.32919	-0.55663	0.4332	0.595351	no
yuzM	1.58744	1.26483	-0.32775	-0.17932	0.78405	0.871063	no
pbpD	9.38868	7.48687	-0.32656	-1.2646	0.07115	0.178664	no
ypcP	6.77548	5.40397	-0.3263	-0.96582	0.17185	0.328061	no
yjcK	6.85717	5.4732	-0.32523	-0.79562	0.2641	0.429134	no
ywqH	30.5743	24.433	-0.32349	-1.05166	0.13375	0.277303	no
ykzI	13.065	10.4454	-0.32285	-0.33427	0.61735	0.74971	no
holB	13.8908	11.1132	-0.32186	-1.18196	0.0953	0.21962	no
rttO	20.1765	16.1439	-0.32169	-0.53153	0.4563	0.614568	no
trnI-Arg	214.332	171.587	-0.32091	-0.25065	0.73055	0.835234	no
yfjB	1.74095	1.39394	-0.32071	-0.70952	0.3207	0.490173	no
ywnF	3.8305	3.06777	-0.32034	-0.54339	0.4457	0.606503	no
ywzG	13.4656	10.792	-0.31931	-0.54905	0.4352	0.59722	no
rghRA	8.51633	6.82587	-0.31922	-0.70572	0.31995	0.489428	no
ycbO	1.86614	1.49588	-0.31906	-0.54845	0.4428	0.604098	no
iolC	0.997934	0.800218	-0.31855	-0.51526	0.4745	0.631268	no
swrAA	256.38	205.709	-0.31767	-0.45168	0.528	0.677277	no
yfnB	8.58208	6.88676	-0.3175	-0.92039	0.1955	0.35627	no
xkdO	2.69996	2.16729	-0.31705	-1.09148	0.11585	0.250483	no
aroH	7.26674	5.8338	-0.31687	-0.22141	0.755	0.852743	no
yoyB	12.6661	10.1735	-0.31616	-0.37643	0.59405	0.733041	no
foIEB	0.280686	0.225452	-0.31614	0	1	1	no
yhcH	7.87493	6.32658	-0.31584	-0.71874	0.30985	0.47949	no
padC	1.18018	0.948538	-0.31523	-0.34516	0.6419	0.766748	no
yjkA	1.20819	0.972595	-0.31294	-0.33211	0.62375	0.753442	no
ypgQ	10.3771	8.35738	-0.31228	-0.90862	0.2044	0.366323	no
cypA	0.375521	0.30249	-0.31201	0	1	1	no
yitB	0.418881	0.337464	-0.31181	0	1	1	no
glnJ	0.949372	0.764859	-0.31178	-0.55023	0.43865	0.600176	no
ytID	0.462862	0.373285	-0.31031	0	1	1	no
yaaR	24.1535	19.4806	-0.31019	-0.97037	0.17445	0.330826	no
dctB	2.66343	2.14884	-0.30973	-0.74528	0.2893	0.458314	no
sigL	11.0931	8.95492	-0.30891	-1.15873	0.09965	0.225785	no
ypjP	35.9389	29.0219	-0.3084	-1.18236	0.09295	0.215977	no
yceF	67.8818	54.8279	-0.30812	-1.24206	0.07685	0.187923	no
mprF	12.287	9.92464	-0.30805	-1.23327	0.07545	0.185961	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yqhP	8.0987	6.54504	-0.30729	-0.63216	0.3694	0.534214	no
yxkB	5.08427	4.10998	-0.30691	-0.88943	0.20895	0.372065	no
khtT	3.11744	2.52126	-0.30622	-0.52698	0.4544	0.613867	no
yrdP	0.712934	0.576823	-0.30564	-0.42879	0.5227	0.672094	no
yfmM	5.3452	4.33315	-0.30283	-1.00815	0.15645	0.30942	no
pelB	3.36691	2.72965	-0.30271	-0.78491	0.26555	0.429807	no
citT	2.33465	1.89328	-0.30231	-0.32955	0.63375	0.760663	no
yqhO	0.464767	0.37712	-0.30148	0	1	1	no
yrkP	2.06995	1.68004	-0.3011	-0.49318	0.4812	0.636591	no
yrdA	8.08534	6.56253	-0.30106	-0.74504	0.29125	0.460896	no
yuiD	1.99445	1.61933	-0.3006	-0.40952	0.5551	0.699542	no
yjaV	0.342306	0.277964	-0.30039	0	1	1	no
xkdC	0.403617	0.327992	-0.29932	0	1	1	no
yIbM	2.12518	1.72714	-0.29921	-0.69416	0.32205	0.491801	no
yhdl	1.318	1.07239	-0.29752	-0.63523	0.36925	0.534204	no
ywhC	26.0421	21.1938	-0.2972	-1.10266	0.1132	0.246322	no
ypeP	2.64353	2.15143	-0.29717	-0.53791	0.4515	0.611788	no
yhcU	1.50314	1.22536	-0.29478	-0.29169	0.6673	0.787018	no
mleA	4.44352	3.62256	-0.2947	-0.88554	0.2122	0.376416	no
yueG	23.5258	19.2008	-0.29308	-0.5211	0.45705	0.614778	no
tdh	0.883525	0.721206	-0.29286	-0.45953	0.5097	0.66107	no
arsC	3.81441	3.11495	-0.29225	-0.48405	0.4908	0.644164	no
ywch	1.99035	1.62631	-0.29142	-0.62408	0.37995	0.543934	no
yqxK	9.3201	7.61598	-0.29132	-0.91485	0.1921	0.352136	no
ysmB	17.487	14.2928	-0.291	-0.83943	0.2382	0.403275	no
yvrL	1.72883	1.414	-0.29001	-0.32259	0.6375	0.763936	no
yfhC	52.5178	42.9633	-0.2897	-1.14122	0.10215	0.229914	no
ysfB	1.00948	0.825834	-0.28969	-0.4969	0.4796	0.63527	no
ywzH	1416.4	1159.91	-0.28822	-1.11498	0.10685	0.236923	no
cotT	2.33025	1.90863	-0.28795	-0.24193	0.78765	0.874449	no
yqzK	52.2986	42.8433	-0.2877	-0.70943	0.31775	0.486737	no
ygbX	0.746384	0.611904	-0.28661	-0.53277	0.4531	0.612776	no
ureA	12.6389	10.3646	-0.28621	-0.39036	0.5806	0.721451	no
yraH	2.93975	2.41344	-0.28461	-0.38561	0.58045	0.721451	no
rplM	797.496	655.223	-0.28349	-1.06552	0.1267	0.267589	no
tagG	15.1238	12.4423	-0.28156	-1.00173	0.1548	0.306481	no
yhaO	5.16512	4.25146	-0.28084	-0.86078	0.2293	0.395294	no
ybfJ	6.6943	5.51131	-0.28054	-0.34343	0.6356	0.762393	no
ywsA	7.43202	6.12227	-0.27969	-0.44086	0.5356	0.684567	no
ykwD	1.74953	1.44125	-0.27965	-0.50392	0.4773	0.633122	no
yppB	4.81745	3.97568	-0.27707	-0.54982	0.4269	0.588208	no
yurS	2.09875	1.73275	-0.27646	-0.19339	0.7769	0.865974	no
mdxR	0.151023	0.124735	-0.2759	0	1	1	no
cymR	34.9495	28.8676	-0.27582	-0.92773	0.18965	0.348936	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ypmS	10.4232	8.61024	-0.27567	-0.77455	0.2688	0.433725	no
ydfA	2.71395	2.24205	-0.27558	-0.72939	0.3024	0.47265	no
ydaS	19.3792	16.0158	-0.27502	-0.54347	0.44945	0.609828	no
nhaX	11.5002	9.50589	-0.27477	-0.75658	0.27845	0.44471	no
sqhC	0.402428	0.332694	-0.27454	0	1	1	no
rpmA	1769.3	1463.38	-0.27387	-1.05776	0.1269	0.267814	no
nupG	7.31915	6.05477	-0.2736	-0.91037	0.19585	0.35656	no
ykoJ	7.30554	6.04562	-0.2731	-0.66134	0.3503	0.517169	no
yusG	89.0404	73.6891	-0.27301	-0.67754	0.33175	0.499648	no
glpP	20.3397	16.837	-0.27267	-0.92465	0.1925	0.352696	no
ybfQ	23.8572	19.7559	-0.27214	-1.06651	0.12465	0.26521	no
yclE	1.70925	1.41661	-0.27092	-0.5062	0.47215	0.629196	no
abbA	219.877	182.309	-0.27031	-0.86795	0.22425	0.389828	no
yuxL	3.06108	2.53811	-0.27029	-0.8363	0.23525	0.401435	no
yjdF	6.80045	5.64449	-0.26879	-0.6113	0.3899	0.551543	no
glgA	0.673513	0.559161	-0.26844	-0.37232	0.5965	0.735093	no
yjgA	3.60139	2.99259	-0.26716	-0.40853	0.54955	0.6956	no
sfp	7.42603	6.17097	-0.26709	-0.64202	0.35885	0.523621	no
yodJ	9.86667	8.20178	-0.26663	-0.85126	0.2298	0.395663	no
yeaD	8.88855	7.39782	-0.26485	-0.83286	0.237	0.40279	no
ycbC	0.216031	0.180053	-0.26282	0	1	1	no
yueH	19.969	16.6486	-0.26236	-0.50678	0.4761	0.632536	no
yxjH	29.5094	24.6036	-0.2623	-1.05014	0.1341	0.277874	no
trnS-Glu	513.446	428.518	-0.26086	-0.29314	0.6959	0.807235	no
yphB	0.905347	0.756443	-0.25924	-0.37015	0.60035	0.737284	no
bcaP	15.2799	12.7671	-0.2592	-1.01831	0.1514	0.301669	no
yitS	6.49273	5.4282	-0.25835	-0.75028	0.2913	0.460896	no
msmX	2.70926	2.26617	-0.25764	-0.63799	0.36315	0.528244	no
ganA	0.698498	0.584289	-0.25757	-0.51408	0.4683	0.625181	no
yhdV	10.8133	9.0458	-0.25749	-0.42431	0.54425	0.691235	no
kamA	0.40848	0.341745	-0.25735	0	1	1	no
ywql	21.7673	18.2125	-0.25723	-0.53577	0.45235	0.612051	no
yzkL	12.0235	10.0604	-0.25717	-0.43195	0.53485	0.683949	no
yqaG	0.236532	0.197933	-0.25702	0	1	1	no
phoR	6.62951	5.55119	-0.2561	-0.79478	0.25415	0.417141	no
yIbF	34.2475	28.6833	-0.25579	-0.89256	0.2049	0.366953	no
trnY-Asp	18940.9	15867.1	-0.25547	-0.96758	0.17415	0.330593	no
ydfF	5.94111	4.97997	-0.2546	-0.66543	0.34765	0.515165	no
rluB	9.95129	8.34485	-0.254	-0.78008	0.26875	0.433725	no
ycnB	2.82735	2.3716	-0.25359	-0.69799	0.3198	0.489399	no
glgP	0.634125	0.531955	-0.25346	-0.45843	0.5157	0.666075	no
pucl	0.301184	0.252918	-0.25198	0	1	1	no
ypkP	5.276	4.43075	-0.25189	-0.60959	0.39265	0.553618	no
ydjB	6.08749	5.11451	-0.25125	-0.41757	0.5565	0.70107	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
malR	2.66627	2.24043	-0.25105	-0.52937	0.4524	0.612051	no
xylB	0.469189	0.394754	-0.24921	0	1	1	no
yyzJ	24.4309	20.5584	-0.24898	-0.27146	0.6823	0.797405	no
xkdG	4.90184	4.12735	-0.24811	-0.69304	0.3254	0.493319	no
iolH	0.957426	0.806239	-0.24795	-0.36597	0.59515	0.733671	no
ansA	2.9482	2.48278	-0.24788	-0.60826	0.3929	0.553618	no
yticQ	0.251932	0.212161	-0.24788	0	1	1	no
speD	66.972	56.4299	-0.2471	-0.92757	0.18435	0.342469	no
yoaG	19.3639	16.331	-0.24576	-0.70301	0.31735	0.486447	no
yjcH	47.4037	39.9951	-0.24518	-0.97855	0.16005	0.313386	no
ldh	79.7851	67.3499	-0.24444	-0.99086	0.1603	0.313711	no
csoR	17.5216	14.7973	-0.2438	-0.55069	0.43765	0.599481	no
yvgL	1.70744	1.44251	-0.24326	-0.35987	0.618	0.74971	no
aseR	2.99515	2.53171	-0.24251	-0.28966	0.6759	0.794151	no
spolIE	0.672845	0.568866	-0.24219	-0.51381	0.46465	0.622088	no
sacT	2.35873	1.9943	-0.24213	-0.5063	0.46815	0.625181	no
yclI	0.10711	0.090565	-0.24208	0	1	1	no
yrpB	4.29361	3.63204	-0.24141	-0.675	0.34315	0.510284	no
yoaT	1.41607	1.19789	-0.24141	-0.40546	0.5612	0.705325	no
albE	3.17087	2.6832	-0.24093	-0.44042	0.53275	0.682432	no
yshA	11.3275	9.58838	-0.24047	-0.38271	0.58955	0.728692	no
yjbK	4.70391	3.98191	-0.2404	-0.53603	0.4534	0.61296	no
bacD	18.1295	15.353	-0.23981	-0.72624	0.29755	0.468008	no
yrrT	7.69431	6.51751	-0.23947	-0.65143	0.34965	0.516862	no
ywdJ	7.06658	5.98657	-0.23928	-0.82142	0.249	0.413046	no
pbpH	8.9519	7.58511	-0.23902	-0.93495	0.1854	0.343906	no
yebA	4.74536	4.02134	-0.23884	-0.85728	0.22575	0.391342	no
asnB	17.8556	15.1327	-0.23871	-0.95779	0.1722	0.328226	no
yoaP	0.596897	0.505963	-0.23845	-0.25437	0.72335	0.830052	no
ytzB	27.1938	23.0548	-0.23821	-0.64038	0.35875	0.523621	no
sacC	0.724176	0.614112	-0.23784	-0.48171	0.49505	0.647663	no
yxjM	1.98514	1.68388	-0.23745	-0.52209	0.45535	0.61429	no
trnE-Asp	7600.54	6453.77	-0.23596	-0.76166	0.27325	0.43828	no
yfiS	0.744328	0.632074	-0.23585	-0.25907	0.69805	0.808724	no
yybI	2.00871	1.70639	-0.23532	-0.45712	0.51085	0.661872	no
yjzF	40.9394	34.7784	-0.2353	-0.2282	0.73985	0.842256	no
yteU	0.391344	0.332477	-0.23518	0	1	1	no
yhcl	13.9043	11.8174	-0.23462	-0.73314	0.29405	0.463558	no
yvfl	7.63878	6.49259	-0.23455	-0.65105	0.35715	0.521956	no
pabC	9.82751	8.35669	-0.2339	-0.34255	0.6213	0.752005	no
glpT	0.437703	0.372273	-0.23359	0	1	1	no
panB	26.9794	22.9511	-0.2333	-0.91094	0.1944	0.354958	no
yclM	20.1796	17.1681	-0.23317	-0.92905	0.184	0.342159	no
ylqH	10.6383	9.05098	-0.23313	-0.24957	0.71815	0.825861	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
pabA	22.4185	19.0739	-0.23309	-0.39107	0.57825	0.719968	no
ydjE	42.1794	35.9396	-0.23097	-0.92787	0.18575	0.344214	no
yjbH	10.9577	9.33791	-0.23078	-0.71101	0.31035	0.47949	no
ydgK	3.25729	2.77757	-0.22985	-0.62672	0.37875	0.542691	no
sepF	40.5496	34.591	-0.22929	-0.51818	0.46095	0.618909	no
dgkA	8.9494	7.63768	-0.22866	-0.27452	0.66435	0.784778	no
zinT	0.385898	0.32961	-0.22746	0	1	1	no
yezC	1.89726	1.6206	-0.22739	-0.27896	0.69095	0.80342	no
liaR	4.11094	3.51453	-0.22614	-0.35482	0.61305	0.747349	no
ybyB	50.9955	43.6521	-0.22432	-0.6228	0.3768	0.540727	no
rhaA	0.547324	0.468597	-0.22405	-0.32448	0.6297	0.757506	no
pbpF	2.0954	1.79437	-0.22375	-0.64401	0.3714	0.535861	no
yqzH	6.98073	5.97842	-0.22361	-0.19599	0.7586	0.854878	no
yokH	1.69928	1.4553	-0.2236	-0.32123	0.6328	0.760256	no
ypzJ	30.0026	25.6969	-0.22349	-0.38016	0.5893	0.728625	no
ypqA	0.419356	0.359471	-0.2223	0	1	1	no
yhdF	3.58222	3.07491	-0.22031	-0.54691	0.43225	0.594483	no
phrE	139.483	119.754	-0.22002	-0.30463	0.6704	0.789427	no
spsG	0.303152	0.260337	-0.21966	0	1	1	no
ycnL	7.36103	6.32341	-0.21921	-0.41841	0.55175	0.697675	no
ymcA	14.84	12.7545	-0.21848	-0.60394	0.3888	0.551102	no
ydfE	1.29931	1.11688	-0.21827	-0.30672	0.66985	0.789028	no
yobE	7.57229	6.5105	-0.21796	-0.6054	0.38965	0.551543	no
ytzJ	191.535	164.73	-0.21751	-0.65921	0.34625	0.51387	no
yvcl	26.7823	23.0516	-0.21641	-0.72743	0.30235	0.47265	no
yfhF	3.87884	3.34	-0.21578	-0.56006	0.42615	0.587895	no
gntK	4.05785	3.49591	-0.21505	-0.62779	0.36785	0.532797	no
yrhO	1.536	1.32344	-0.21489	-0.3845	0.5858	0.72598	no
ureC	4.56046	3.9353	-0.21271	-0.63115	0.37275	0.537051	no
relP	18.2485	15.7552	-0.21195	-0.72889	0.3061	0.475646	no
pksN	5.71624	4.93771	-0.21123	-0.84864	0.22325	0.389176	no
yhfQ	16.4134	14.1833	-0.21069	-0.79915	0.2581	0.422325	no
yxbF	1.19275	1.03074	-0.21062	-0.40264	0.5675	0.711328	no
btr	4.0522	3.50362	-0.20986	-0.65833	0.35755	0.522336	no
fabHA	70.6075	61.113	-0.20834	-0.84294	0.23235	0.398162	no
ydbC	4.53338	3.92949	-0.20624	-0.28078	0.6865	0.80006	no
ypiB	23.6025	20.4602	-0.20612	-0.71103	0.3101	0.47949	no
pdaC	3.51409	3.047	-0.20576	-0.60121	0.39585	0.556934	no
yhcR	2.05506	1.7831	-0.20479	-0.65055	0.3544	0.519507	no
yuaE	21.3847	18.5576	-0.20457	-0.65547	0.35355	0.519133	no
yxiT	4.08299	3.5436	-0.20441	-0.18426	0.79055	0.874807	no
dtpT	1.17182	1.01874	-0.20196	-0.42963	0.55215	0.697945	no
hemC	14.7499	12.833	-0.20085	-0.4995	0.4767	0.632776	no
yheA	31.9249	27.7799	-0.20064	-0.60345	0.38995	0.551543	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
mutL	5.77478	5.02523	-0.20058	-0.72534	0.30095	0.471173	no
yugN	4.95367	4.31282	-0.19987	-0.30756	0.65475	0.777372	no
xyIR	1.76204	1.5353	-0.19873	-0.44025	0.54135	0.689427	no
cotR	0.428769	0.373691	-0.19836	0	1	1	no
ydbP	18.6431	16.2603	-0.19729	-0.4788	0.5038	0.654782	no
rbgA	12.8574	11.2146	-0.19722	-0.68816	0.3225	0.491801	no
yqeG	20.4165	17.8107	-0.19699	-0.64146	0.36835	0.533108	no
yabE	14.9165	13.015	-0.19673	-0.76836	0.2703	0.435231	no
tagD	71.5218	62.4115	-0.19657	-0.75164	0.2874	0.455964	no
sspF	4.91694	4.29511	-0.19507	-0.11395	0.85675	0.917174	no
kinE	3.94389	3.44684	-0.19434	-0.63888	0.36435	0.529371	no
yrkA	14.6241	12.7825	-0.19418	-0.75642	0.28385	0.451596	no
ywnH	8.3453	7.29871	-0.19332	-0.39847	0.57195	0.71511	no
ywqE	2.72809	2.38684	-0.19279	-0.41359	0.55415	0.699542	no
clsA	2.66861	2.33556	-0.19233	-0.52645	0.45595	0.614405	no
yfiH	0.335115	0.293326	-0.19215	0	1	1	no
ydzT	12.2954	10.7649	-0.19179	-0.20118	0.7759	0.865974	no
yyzL	9.28301	8.12771	-0.19174	-0.0994	0.8584	0.918312	no
yrzF	3.71729	3.25662	-0.19088	-0.41816	0.5488	0.695122	no
atoB	0.474885	0.416222	-0.19022	0	1	1	no
yjiB	1.5791	1.38636	-0.18781	-0.40122	0.5745	0.716973	no
ycbN	2.36211	2.07415	-0.18756	-0.41622	0.55355	0.699241	no
degR	68.8269	60.438	-0.18752	-0.40009	0.5846	0.725215	no
ydhl	3.11361	2.73428	-0.18743	-0.32562	0.6418	0.766748	no
ydzJ	48.7754	42.8391	-0.18723	-0.28233	0.6808	0.796458	no
yjcA	0.643896	0.565608	-0.18703	-0.10756	0.8531	0.915505	no
gapB	1.99242	1.7504	-0.18684	-0.40814	0.55885	0.703318	no
ytIA	0.124609	0.109493	-0.18656	0	1	1	no
yhbF	5.46055	4.79837	-0.1865	-0.4888	0.48675	0.640424	no
yydK	2.79538	2.45658	-0.1864	-0.38683	0.5831	0.723656	no
ybdN	23.7834	20.9045	-0.18614	-0.72386	0.29815	0.468439	no
ytfP	3.38667	2.97678	-0.18612	-0.52241	0.46485	0.622133	no
gntR	1.59269	1.39997	-0.18606	-0.18461	0.79385	0.876474	no
ypbF	5.00109	4.39649	-0.18589	-0.36722	0.6036	0.739935	no
yoaA	4.19498	3.68833	-0.1857	-0.38337	0.58155	0.722391	no
yojA	0.249569	0.219461	-0.18547	0	1	1	no
yitI	5.03789	4.43411	-0.18418	-0.36814	0.6013	0.737842	no
prs	36.7717	32.3777	-0.18359	-0.73543	0.2921	0.461575	no
khtS	6.14951	5.41595	-0.18326	-0.3099	0.6605	0.78221	no
ydfH	2.09848	1.84835	-0.18311	-0.40993	0.56375	0.707577	no
kinB	3.60042	3.17291	-0.18236	-0.51982	0.46415	0.621641	no
yocA	13.6392	12.0234	-0.18191	-0.59387	0.4072	0.569683	no
dinF	3.05964	2.69922	-0.18082	-0.5044	0.4741	0.631119	no
lytE	36.6027	32.2956	-0.18061	-0.72454	0.3028	0.473077	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yybP	1.29708	1.14458	-0.18046	-0.18896	0.78145	0.869727	no
yitT	6.31921	5.57732	-0.18017	-0.51916	0.4632	0.620881	no
rpsI	543.399	480.029	-0.17889	-0.71461	0.312	0.481165	no
ysnF	1.10877	0.979521	-0.17881	-0.27755	0.6849	0.79881	no
ywpD	0.712579	0.629655	-0.17849	-0.23031	0.754	0.85238	no
ydfI	1.5725	1.38972	-0.17826	-0.21765	0.7561	0.85347	no
yqzL	300.156	265.289	-0.17815	-0.46825	0.5104	0.661748	no
fabF	71.791	63.5313	-0.17633	-0.71362	0.31515	0.484068	no
feuA	5.19524	4.5985	-0.17603	-0.50524	0.4796	0.63527	no
splA	9.30353	8.24113	-0.17494	-0.23122	0.73275	0.83698	no
yhgD	3.71197	3.28864	-0.17469	-0.36133	0.6049	0.740799	no
rny	126.408	112	-0.1746	-0.66201	0.34455	0.511958	no
yaaQ	30.3702	26.9251	-0.1737	-0.4984	0.48345	0.637853	no
sspl	1.8275	1.62289	-0.17131	-0.24646	0.8452	0.911557	no
yxkH	3.90074	3.46508	-0.17086	-0.43247	0.53915	0.687798	no
yqjY	21.1017	18.7474	-0.17067	-0.53533	0.45195	0.612051	no
pyrAB	31.6606	28.1296	-0.1706	-0.3236	0.6419	0.766748	no
glpG	6.7027	5.9574	-0.17006	-0.60414	0.3871	0.549109	no
ykoV	0.51567	0.458578	-0.16928	-0.19915	0.7806	0.869207	no
yuzN	19.7829	17.5974	-0.16889	-0.37153	0.61305	0.747349	no
yyaS	2.30514	2.05101	-0.16852	-0.26623	0.7064	0.816372	no
ykbA	3.9171	3.48554	-0.1684	-0.49637	0.48145	0.636591	no
ppsD	0.2435	0.216713	-0.16814	0	1	1	no
araR	2.79072	2.48437	-0.16776	-0.42557	0.5436	0.691197	no
gabD	2.41142	2.14801	-0.16688	-0.44156	0.52795	0.677277	no
pksR	4.74098	4.22595	-0.16591	-0.66806	0.3449	0.512274	no
bsaA	5.60755	5.00383	-0.16434	-0.35533	0.6173	0.74971	no
yvkA	1.94661	1.7375	-0.16395	-0.39991	0.5693	0.713344	no
yrvM	12.2107	10.9017	-0.1636	-0.54422	0.44405	0.60514	no
yjdB	7.09041	6.33145	-0.16333	-0.30284	0.66385	0.784435	no
ilvK	31.6307	28.2549	-0.16282	-0.65289	0.35345	0.519133	no
ctaB	22.8106	20.3823	-0.16239	-0.63467	0.36125	0.526108	no
ydzW	11.3196	10.1147	-0.16237	-0.37594	0.59315	0.732173	no
rex	16.9182	15.1185	-0.16226	-0.49351	0.4829	0.637672	no
yobU	0.557665	0.498923	-0.16058	-0.12279	0.8806	0.928334	no
yqhQ	7.73882	6.92778	-0.15972	-0.50771	0.4714	0.628421	no
cypC	1.69957	1.52266	-0.15858	-0.358	0.6126	0.747349	no
recN	9.32286	8.36357	-0.15665	-0.60448	0.3858	0.547956	no
cccB	42.1296	37.8312	-0.15526	-0.4942	0.4907	0.644164	no
pksJ	5.78808	5.1998	-0.15463	-0.39089	0.57165	0.71511	no
aroD	19.7586	17.7521	-0.15449	-0.52612	0.45155	0.611788	no
hemX	16.5734	14.9017	-0.15339	-0.56299	0.418	0.580228	no
rtbD	5.03929	4.53295	-0.15277	-0.48951	0.48295	0.637672	no
ybbP	9.59299	8.63385	-0.15198	-0.33348	0.6366	0.763103	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
liaH	8.1908	7.37855	-0.15067	-0.43255	0.5397	0.688265	no
fadH	2.52716	2.27703	-0.15036	-0.31349	0.65795	0.779684	no
xkdA	1.35513	1.22112	-0.15022	-0.20728	0.77385	0.865101	no
mmsA	1.2478	1.12445	-0.15016	-0.32405	0.641	0.766748	no
yugM	9.86995	8.8967	-0.14977	-0.3339	0.6405	0.766748	no
alsD	3.55923	3.21406	-0.14717	-0.34778	0.62275	0.753027	no
araQ	0.385088	0.347784	-0.147	0	1	1	no
hsIO	10.2378	9.2508	-0.14625	-0.48742	0.48425	0.638485	no
spolIIAF	0.301183	0.272206	-0.14594	0	1	1	no
tmrB	2.02051	1.82644	-0.14568	-0.24181	0.73765	0.841548	no
yfmQ	24.237	21.9206	-0.14492	-0.46384	0.51405	0.665086	no
yfhO	3.14	2.84067	-0.14453	-0.44417	0.5237	0.672917	no
artP	53.6883	48.5736	-0.14444	-0.57969	0.40955	0.571686	no
cydA	4.73273	4.28206	-0.14437	-0.37021	0.595	0.733671	no
ywzB	29.9152	27.068	-0.14429	-0.30155	0.6659	0.785863	no
rho	17.0348	15.419	-0.14378	-0.56641	0.4161	0.57845	no
nadD	22.2921	20.1842	-0.14331	-0.40878	0.55505	0.699542	no
ypsA	10.7082	9.69651	-0.14318	-0.40388	0.5717	0.71511	no
mccA	3.13946	2.84293	-0.14314	-0.35245	0.6168	0.74971	no
yccK	2.52349	2.28548	-0.14293	-0.3285	0.64435	0.768691	no
yjbO	19.592	17.7471	-0.14268	-0.54395	0.44035	0.602075	no
yqjA	8.40048	7.61632	-0.14138	-0.46261	0.51235	0.663125	no
yfkJ	12.9458	11.7472	-0.14017	-0.39221	0.57505	0.71718	no
metN	34.6189	31.4304	-0.1394	-0.42289	0.5442	0.691235	no
pksl	2.85838	2.59513	-0.13939	-0.30097	0.6774	0.794882	no
yaaB	28.5122	25.9169	-0.13769	-0.30105	0.6638	0.784435	no
ydgF	6.06798	5.51732	-0.13725	-0.4602	0.5173	0.667219	no
tagH	8.64959	7.86472	-0.13724	-0.51922	0.46345	0.620927	no
pksM	6.82613	6.20678	-0.13722	-0.55374	0.42435	0.586841	no
yqjN	3.29411	2.99799	-0.13589	-0.41182	0.5643	0.707792	no
yyaJ	1.82825	1.66549	-0.13452	-0.32322	0.6504	0.774424	no
yqzF	30.3035	27.6171	-0.13392	-0.28901	0.6803	0.796458	no
ppnKA	14.3457	13.0768	-0.13361	-0.47224	0.49925	0.652274	no
ywcE	17.4322	15.8913	-0.13351	-0.26453	0.7095	0.818941	no
folK	45.3357	41.3512	-0.13272	-0.28335	0.68085	0.796458	no
ybcL	1.29925	1.18564	-0.13201	-0.26632	0.7049	0.814891	no
xkdQ	2.39391	2.18475	-0.13191	-0.27904	0.6892	0.801955	no
dltC	76.8309	70.126	-0.13174	-0.17543	0.80185	0.880879	no
codV	18.2752	16.6816	-0.13163	-0.5039	0.47095	0.62827	no
yoqW	0.588773	0.537439	-0.13161	-0.13215	0.8636	0.920549	no
ynzI	24.6995	22.5496	-0.13138	-0.15497	0.81305	0.88978	no
yuel	18.9794	17.3288	-0.13126	-0.37448	0.58695	0.726502	no
thiT	27.97	25.5453	-0.13083	-0.48396	0.4912	0.644463	no
slpH	0.502424	0.458954	-0.13056	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ycgG	1.59279	1.455	-0.13054	-0.22798	0.74885	0.849652	no
ansR	6.13721	5.61108	-0.1293	-0.23016	0.73975	0.842256	no
yfhH	16.9832	15.5471	-0.12746	-0.30023	0.6774	0.794882	no
thiQ	11.2202	10.2736	-0.12715	-0.48209	0.49415	0.646969	no
pksL	7.50517	6.87323	-0.1269	-0.34777	0.617	0.74971	no
xtmA	1.54035	1.41089	-0.12665	-0.17526	0.7995	0.88011	no
abrB	30.478	27.9417	-0.12534	-0.3288	0.64105	0.766748	no
ohrB	15.8724	14.5547	-0.12504	-0.3457	0.61615	0.749597	no
bsdC	0.185415	0.170032	-0.12495	0	1	1	no
yeeF	5.56957	5.10812	-0.12477	-0.45704	0.51705	0.667219	no
yfjP	2.96405	2.71883	-0.12458	-0.29333	0.68315	0.797824	no
folP	13.0656	11.9864	-0.12437	-0.21059	0.75895	0.854878	no
panE	6.1522	5.64463	-0.12422	-0.36855	0.5999	0.737093	no
yflI	50.4324	46.2768	-0.12406	-0.18494	0.7965	0.878361	no
gerBC	0.518453	0.476276	-0.12242	-0.13051	0.85045	0.914099	no
yxel	5.61729	5.16794	-0.12028	-0.26713	0.7069	0.816697	no
ytxJ	36.0712	33.1868	-0.12024	-0.35803	0.6156	0.749234	no
spoOF	15.9338	14.6721	-0.11901	-0.31173	0.657	0.778984	no
sipT	14.3041	13.1745	-0.11868	-0.3719	0.60045	0.737284	no
sspN	5.63217	5.18809	-0.11849	-0.06365	0.8543	0.915505	no
mbl	30.4155	28.0185	-0.11843	-0.47298	0.5017	0.653678	no
ydbT	16.8325	15.5073	-0.1183	-0.41318	0.5545	0.699542	no
acsA	6.84458	6.30719	-0.11796	-0.43566	0.5357	0.684567	no
moaA	2.71904	2.50769	-0.11674	-0.28743	0.68695	0.800334	no
flgC	36.6994	33.8549	-0.11639	-0.35017	0.61835	0.74971	no
yxal	2.44181	2.25318	-0.11599	-0.16353	0.80905	0.886442	no
ylmE	38.5768	35.6141	-0.11529	-0.37014	0.5988	0.736469	no
yceH	22.9789	21.222	-0.11475	-0.45433	0.5173	0.667219	no
ykoU	0.49515	0.457351	-0.11456	0	1	1	no
ppsE	0.466277	0.430824	-0.11409	0	1	1	no
ypzI	16.8671	15.5858	-0.11398	-0.08199	0.87965	0.928119	no
racA	3.20548	2.96256	-0.1137	-0.21884	0.74865	0.849652	no
ydzS	19.6578	18.1683	-0.11368	-0.05827	0.83795	0.907192	no
ybbA	1.29506	1.197	-0.1136	-0.11785	0.8685	0.922611	no
natB	0.748486	0.69192	-0.11337	-0.1825	0.79465	0.876839	no
crcBA	2.74338	2.53655	-0.11309	-0.09536	0.8981	0.939146	no
yvfG	36.7204	33.9628	-0.11263	-0.24015	0.7375	0.841548	no
yzkM	24.377	22.5507	-0.11235	-0.11949	0.87135	0.924276	no
polA	7.3486	6.79912	-0.11212	-0.44146	0.52655	0.675881	no
yurT	7.93609	7.34322	-0.11202	-0.23595	0.73445	0.838666	no
yukF	1.83874	1.70467	-0.10922	-0.25625	0.71905	0.826387	no
yqaT	0.250504	0.232315	-0.10876	0	1	1	no
trnJ-Pro	667.728	619.573	-0.10799	-0.15749	0.81915	0.892991	no
yetL	2.13303	1.97976	-0.10758	-0.16285	0.8164	0.891611	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
nupO	4.52322	4.19968	-0.10707	-0.30342	0.6693	0.788983	no
yczM	26.7108	24.8159	-0.10616	-1.20216	0.34905	0.516384	no
iolR	8.41939	7.82238	-0.10611	-0.32058	0.65195	0.775578	no
albF	2.31417	2.1517	-0.10502	-0.23478	0.73815	0.841604	no
yticC	0.229855	0.213745	-0.10483	0	1	1	no
walkK	6.39167	5.94715	-0.104	-0.28109	0.6916	0.80342	no
kapD	1.19252	1.10991	-0.10358	-0.14047	0.82765	0.899693	no
bpsA	0.461266	0.429346	-0.10346	0	1	1	no
yxO	5.25624	4.89435	-0.10292	-0.27498	0.69175	0.80342	no
era	34.0144	31.6762	-0.10274	-0.35566	0.6094	0.744844	no
yfiR	6.05677	5.64189	-0.10237	-0.23438	0.73725	0.841548	no
yrdD	6.0962	5.67983	-0.10206	-0.07761	0.90355	0.942299	no
rocB	0.983741	0.917358	-0.10079	-0.15984	0.81875	0.892877	no
murF	3.71912	3.46842	-0.10068	-0.29766	0.67445	0.792755	no
dusB	36.2016	33.763	-0.10061	-0.40405	0.55875	0.703318	no
yhcZ	7.80917	7.28321	-0.1006	-0.20742	0.7644	0.859315	no
whiA	12.4302	11.5946	-0.1004	-0.36235	0.5996	0.737029	no
ygaO	9.69817	9.05538	-0.09894	-0.2583	0.7158	0.824429	no
glgC	0.323617	0.302195	-0.09881	0	1	1	no
araD	0.41908	0.39135	-0.09877	0	1	1	no
yfiL	0.430583	0.402335	-0.09789	0	1	1	no
mutM	6.53664	6.11187	-0.09694	-0.2826	0.6877	0.800958	no
ykuC	6.3199	5.90946	-0.09688	-0.32469	0.6414	0.766748	no
dnal	7.82993	7.3224	-0.09668	-0.30777	0.66495	0.785238	no
yuxN	6.57129	6.14597	-0.09653	-0.28542	0.68625	0.800018	no
ykaA	13.0655	12.222	-0.09628	-0.30116	0.6778	0.794882	no
csbA	24.1188	22.5662	-0.096	-0.18734	0.7907	0.874807	no
lexA	11.9462	11.1785	-0.09583	-0.29382	0.67375	0.792372	no
trnD-Val	1856.91	1737.73	-0.0957	-0.21057	0.765	0.859618	no
yvdA	0.310849	0.290964	-0.09538	0	1	1	no
glcU	0.184019	0.17226	-0.09527	0	1	1	no
yxaM	39.6013	37.0996	-0.09414	-0.21466	0.7554	0.852937	no
ygaJ	11.1751	10.4719	-0.09376	-0.29401	0.6765	0.794606	no
nfrAA	5.50238	5.15758	-0.09336	-0.25327	0.71785	0.825771	no
xkdX	34.1936	32.0573	-0.09307	-0.1189	0.86875	0.922614	no
yxnA	1.01126	0.948567	-0.09233	-0.16107	0.82005	0.892991	no
yhjP	1.14876	1.07756	-0.09231	-0.21096	0.76605	0.860492	no
dacC	4.18955	3.93258	-0.09132	-0.28545	0.6934	0.805086	no
yqeY	353.457	331.869	-0.09092	-0.36637	0.6057	0.741293	no
moaB	5.30418	4.98064	-0.0908	-0.20145	0.7744	0.865233	no
aag	1.8459	1.73456	-0.08975	-0.14345	0.84775	0.913527	no
spbC	1160.46	1090.48	-0.08974	-0.33501	0.63355	0.760663	no
yojO	6.91662	6.50012	-0.0896	-0.33926	0.62385	0.753442	no
yxcA	46.7907	43.9746	-0.08955	-0.2384	0.7389	0.842116	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
rapB	13.7838	12.957	-0.08924	-0.34163	0.62745	0.756015	no
yutC	1.81737	1.70892	-0.08877	-0.14868	0.841	0.909082	no
bofA	6.36182	5.98597	-0.08785	-0.11442	0.86495	0.921462	no
iolS	7.27882	6.8489	-0.08783	-0.27515	0.70415	0.814276	no
yqxL	2.16951	2.0426	-0.08696	-0.19278	0.78325	0.870692	no
levG	2.25187	2.12019	-0.08693	-0.18026	0.79465	0.876839	no
ydeR	0.251487	0.236868	-0.0864	0	1	1	no
yvgO	8.73618	8.23206	-0.08575	-0.21909	0.7526	0.851748	no
clpP	101.08	95.3357	-0.08441	-0.3408	0.62765	0.756015	no
yuxK	8.37865	7.90388	-0.08416	-0.19254	0.7753	0.865721	no
rplU	477.681	450.858	-0.08337	-0.33752	0.6239	0.753442	no
moaC	9.12488	8.61766	-0.08251	-0.15103	0.827	0.899248	no
mleN	3.76885	3.56267	-0.08117	-0.2439	0.7274	0.832855	no
ybeC	7.93296	7.50139	-0.0807	-0.30245	0.6637	0.784435	no
exlX	4.9116	4.64475	-0.08059	-0.20556	0.7694	0.861968	no
csgA	0.36458	0.344892	-0.08009	0	1	1	no
ftsR	4.36405	4.13028	-0.07943	-0.21158	0.76655	0.860492	no
yhaL	4.66768	4.41845	-0.07916	-0.06276	0.8921	0.936755	no
pth	12.2452	11.5929	-0.07898	-0.23666	0.73945	0.842256	no
yoZK	0.148366	0.140471	-0.07889	0	1	1	no
cotZ	0.088854	0.084148	-0.07851	0	1	1	no
cotJC	0.118266	0.112016	-0.07832	0	1	1	no
cotO	0.487495	0.461812	-0.07808	0	1	1	no
yugF	0.954383	0.904174	-0.07797	-0.11523	0.8581	0.918312	no
ganP	0.923641	0.875066	-0.07794	-0.1435	0.848	0.913527	no
xepA	3.73707	3.54253	-0.07713	-0.19485	0.78225	0.870099	no
rsiX	8.39611	7.96589	-0.07589	-0.22251	0.74595	0.847392	no
rocD	2.93771	2.78866	-0.07512	-0.20251	0.77605	0.865974	no
thiM	2.28474	2.16896	-0.07503	-0.11482	0.86675	0.92218	no
ydaD	0.937497	0.890267	-0.07458	-0.11332	0.855	0.915564	no
azlC	3.19179	3.03112	-0.07451	-0.16158	0.81735	0.891611	no
ydgl	2.71466	2.57807	-0.07448	-0.14553	0.83155	0.902619	no
sdhA	38.8922	36.944	-0.07414	-0.30046	0.6615	0.782897	no
xre	20.3863	19.376	-0.07332	-0.19534	0.7771	0.865974	no
scoC	51.6262	49.1288	-0.07153	-0.27245	0.698	0.808724	no
ykuL	7.60952	7.24258	-0.0713	-0.1643	0.81475	0.89039	no
spoVID	0.199538	0.189938	-0.07114	0	1	1	no
yazB	114.123	108.751	-0.06957	-0.07585	0.92085	0.951318	no
hemH	8.55247	8.15325	-0.06897	-0.22473	0.7471	0.84844	no
yceG	14.6641	14.0011	-0.06676	-0.26542	0.69995	0.810423	no
rsgl	3.11066	2.97028	-0.06662	-0.14812	0.83025	0.902211	no
trnD-Ser	773.072	738.201	-0.06659	-0.1393	0.8408	0.909082	no
ywbC	25.5882	24.4363	-0.06645	-0.20073	0.7714	0.863543	no
sdhB	43.6581	41.6965	-0.06632	-0.26501	0.7087	0.81827	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yycl	7.70387	7.35839	-0.06619	-0.1199	0.86665	0.92218	no
dctS	1.87179	1.78899	-0.06527	-0.15556	0.82365	0.896127	no
ndk	47.9744	45.8548	-0.06519	-0.24733	0.717	0.825047	no
thil	4.89619	4.68101	-0.06484	-0.19868	0.78185	0.869913	no
ydgE	6.01737	5.75559	-0.06417	-0.14238	0.8433	0.910608	no
infC	199.327	190.725	-0.06364	-0.25772	0.71135	0.820822	no
mutY	5.28461	5.06112	-0.06234	-0.18995	0.78945	0.874755	no
ydcC	3.37361	3.23152	-0.06208	-0.16432	0.81455	0.89039	no
sdhC	48.9384	46.9048	-0.06123	-0.24228	0.7247	0.831007	no
yktB	6.7215	6.443	-0.06105	-0.16463	0.81425	0.89039	no
hpf	105.406	101.075	-0.06053	-0.24435	0.7291	0.833831	no
arsB	2.49411	2.39239	-0.06007	-0.14559	0.8338	0.904272	no
yhjM	8.57959	8.23116	-0.05981	-0.20024	0.7764	0.865974	no
moaE	10.5143	10.0914	-0.05922	-0.10744	0.88285	0.929919	no
yumB	0.94347	0.905987	-0.05849	-0.10694	0.8806	0.928334	no
yfmP	8.01765	7.70052	-0.05822	-0.13383	0.8502	0.914099	no
pksC	5.04427	4.84498	-0.05816	-0.16241	0.81945	0.892991	no
bshR	50.8039	48.8383	-0.05693	-0.21592	0.75655	0.853655	no
levD	2.6412	2.54223	-0.0551	-0.06852	0.92705	0.956244	no
acuC	3.18812	3.07035	-0.0543	-0.13834	0.8454	0.911557	no
ywiB	11.8143	11.391	-0.05264	-0.077	0.9117	0.946054	no
yuzE	1.71295	1.65158	-0.05264	-0.05844	0.9235	0.953109	no
rhaB	0.928192	0.895785	-0.05127	-0.10138	0.891	0.935863	no
yurQ	9.65119	9.31597	-0.051	-0.11482	0.8671	0.92218	no
ywnB	2.76915	2.67326	-0.05084	-0.10182	0.893	0.937278	no
yjiC	1.94583	1.87862	-0.05071	-0.11915	0.8617	0.919836	no
proI	2.10347	2.03169	-0.0501	-0.10386	0.89085	0.935863	no
cccA	23.2502	22.4578	-0.05003	-0.14261	0.8401	0.908993	no
ydeA	1.65411	1.59851	-0.04933	-0.07674	0.93265	0.959371	no
ykuK	32.458	31.3759	-0.04892	-0.18105	0.8007	0.880628	no
glnT	0.05636	0.054504	-0.0483	0	1	1	no
artR	28.3537	27.423	-0.04815	-0.13218	0.8495	0.914099	no
yvaA	15.6416	15.1328	-0.04771	-0.18425	0.78985	0.874755	no
phrF	1072.63	1037.79	-0.04764	-0.03309	0.9639	0.972858	no
ywgA	13.1598	12.7421	-0.04653	-0.13545	0.84845	0.913527	no
ilvA	43.8729	42.4846	-0.04639	-0.18813	0.7886	0.874755	no
yuiH	0.991554	0.960232	-0.04631	-0.05714	0.93165	0.958606	no
ycbU	2.636	2.55319	-0.04605	-0.11691	0.8676	0.92218	no
xkdN	8.03167	7.78738	-0.04456	-0.10537	0.8775	0.926585	no
frlB	5.4645	5.29953	-0.04422	-0.13066	0.8538	0.915505	no
dat	40.3139	39.097	-0.04422	-0.17684	0.79335	0.876236	no
ylzA	127.116	123.295	-0.04404	-0.16046	0.81705	0.891611	no
yflT	16.7614	16.2592	-0.04388	-0.11276	0.878	0.92664	no
ysxB	1150.72	1116.88	-0.04307	-0.16526	0.812	0.888891	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yvzF	106.685	103.612	-0.04216	-0.10792	0.8838	0.930394	no
spoVB	0.966302	0.938834	-0.0416	-0.08541	0.8974	0.939045	no
ymaE	9.56074	9.29137	-0.04123	-0.1333	0.85335	0.915505	no
mrpC	15.9076	15.4662	-0.0406	-0.03871	0.9509	0.968589	no
yabT	0.667245	0.649005	-0.03999	-0.04853	0.9544	0.969166	no
citA	3.35835	3.26719	-0.0397	-0.10782	0.87405	0.926136	no
ytoA	21.5127	20.9395	-0.03896	-0.13016	0.85415	0.915505	no
ypfB	7.42017	7.22359	-0.03874	-0.02828	0.88535	0.931501	no
rplGA	114.505	111.478	-0.03865	-0.14673	0.83085	0.902338	no
csbC	5.02982	4.89984	-0.03777	-0.12212	0.86575	0.921788	no
yfiK	1.61409	1.57379	-0.03648	-0.04602	0.96125	0.972074	no
trnD-Trp	1553.32	1514.64	-0.03638	-0.0714	0.90525	0.942348	no
yfjT	17.9764	17.5365	-0.03574	-0.04437	0.935	0.960994	no
yhaU	1.33588	1.30353	-0.03537	-0.07318	0.90285	0.941951	no
ykhA	9.33649	9.11764	-0.03422	-0.09295	0.89465	0.938114	no
yrzA	18.6515	18.2186	-0.03388	-0.05051	0.94385	0.966631	no
ytaP	0.592141	0.578684	-0.03317	-0.04117	0.935	0.960994	no
sufA	38.0604	37.1992	-0.03302	-0.108	0.87545	0.926585	no
yneK	18.2199	17.81	-0.03282	-0.09663	0.8935	0.937434	no
yabM	3.7241	3.64041	-0.03279	-0.0765	0.9145	0.946961	no
pspA	44.9488	43.9419	-0.03269	-0.13014	0.85285	0.915505	no
yrkD	39.0191	38.1462	-0.03264	-0.0609	0.94965	0.968576	no
yyaB	3.15126	3.08283	-0.03167	-0.05267	0.9541	0.969166	no
yhjH	3.52458	3.4484	-0.03153	-0.06181	0.93685	0.962101	no
yxbC	34.2651	33.5409	-0.03082	-0.12346	0.8628	0.920484	no
yobS	1.04727	1.02514	-0.0308	-0.03822	0.93005	0.957751	no
trnB-Ile2	2621.45	2566.29	-0.03068	-0.0768	0.9142	0.946913	no
yjbL	26.7256	26.1677	-0.03043	-0.09167	0.89635	0.939045	no
glnA	259.725	254.321	-0.03033	-0.1082	0.8774	0.926585	no
trnJ-Leu2	606.216	593.726	-0.03003	-0.05183	0.95515	0.969166	no
ytIP	8.65455	8.48136	-0.02916	-0.07956	0.9069	0.943477	no
yvgN	23.2691	22.8113	-0.02866	-0.1113	0.87635	0.926585	no
yqbC	2.6571	2.60536	-0.02837	-0.05686	0.9475	0.967807	no
ynaC	4.89667	4.80202	-0.02816	-0.07573	0.90745	0.943477	no
yjbA	2.45587	2.40888	-0.02787	-0.05807	0.9356	0.961081	no
ytcP	0.184857	0.181393	-0.02729	0	1	1	no
hemZ	3.06572	3.00874	-0.02707	-0.07893	0.91745	0.948964	no
yppE	5.65081	5.54633	-0.02692	-0.04965	0.9614	0.972074	no
yyzF	27.1001	26.6013	-0.0268	-0.03582	0.93795	0.962266	no
prmC	3.16004	3.10534	-0.02519	-0.06121	0.92225	0.952186	no
fruA	2.04743	2.01225	-0.02501	-0.07071	0.9165	0.948506	no
bpr	2.02729	1.99275	-0.02479	-0.08778	0.89815	0.939146	no
yvcJ	11.5554	11.3619	-0.02436	-0.08528	0.9022	0.941588	no
ltaSB	10.0757	9.90729	-0.02432	-0.09541	0.8946	0.938114	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
htpK	12.0791	11.88	-0.02398	-0.07812	0.91185	0.946054	no
fmt	10.4252	10.2603	-0.023	-0.05776	0.9308	0.958259	no
aadK	3.28475	3.23396	-0.02248	-0.05535	0.9278	0.95649	no
yfiC	1.04635	1.03047	-0.02206	-0.03832	0.9581	0.970638	no
yxjS	10.4086	10.2526	-0.02179	-0.0405	0.9601	0.971285	no
fadR	9.32871	9.18911	-0.02175	-0.06177	0.929	0.957198	no
rocE	6.91235	6.81169	-0.02116	-0.07491	0.91395	0.946913	no
sipU	6.87667	6.78023	-0.02038	-0.05248	0.93445	0.960957	no
rpsU	733.291	723.479	-0.01943	-0.07494	0.91395	0.946913	no
sppA	29.8597	29.4855	-0.0182	-0.07273	0.918	0.949269	no
htpX	61.1038	60.3479	-0.01796	-0.07275	0.91725	0.948964	no
alsS	1.71291	1.69193	-0.01778	-0.04646	0.9383	0.962266	no
yycC	183.744	181.498	-0.01774	-0.03917	0.96865	0.975705	no
yrdQ	1.98892	1.96483	-0.01758	-0.03653	0.9674	0.974972	no
ahpC	220.572	217.971	-0.01711	-0.06906	0.921	0.951318	no
yhdX	38.4852	38.0568	-0.01615	-0.01123	0.87545	0.926585	no
ylaF	109.216	108.009	-0.01603	-0.04228	0.9409	0.964668	no
katE	2.40069	2.37423	-0.01599	-0.04822	0.9521	0.968958	no
rpml	1539.51	1522.6	-0.01593	-0.06451	0.92745	0.956393	no
yhgE	3.12623	3.09238	-0.0157	-0.05262	0.94235	0.965615	no
ywhB	42.2268	41.7815	-0.0153	-0.02837	0.959	0.970638	no
sbcE	1.95975	1.93942	-0.01504	-0.04725	0.9417	0.965223	no
trnB-Leu2	408.755	404.683	-0.01445	-0.02094	0.9426	0.965615	no
yxjL	1.06157	1.05102	-0.01441	-0.01497	0.9549	0.969166	no
yrrL	5.14539	5.09455	-0.01433	-0.04332	0.9583	0.970638	no
yjqA	9.61227	9.51815	-0.0142	-0.03233	0.9723	0.976735	no
ymdB	9.23751	9.14753	-0.01412	-0.04479	0.9495	0.968576	no
ydch	3.83165	3.79436	-0.01411	-0.02197	0.96335	0.972858	no
yobQ	6.21951	6.15965	-0.01395	-0.03874	0.946	0.967343	no
speB	8.85711	8.77815	-0.01292	-0.04192	0.9505	0.968589	no
ypiA	3.37849	3.34846	-0.01288	-0.03669	0.95235	0.968958	no
yeeB	3.36175	3.33542	-0.01134	-0.03586	0.9627	0.972858	no
argJ	45.4319	45.0824	-0.01114	-0.04512	0.9485	0.968206	no
yvcA	7.93009	7.87463	-0.01012	-0.02974	0.957	0.970515	no
hisC	15.9843	15.8734	-0.01005	-0.03889	0.95765	0.970638	no
ypgR	13.5924	13.4996	-0.00988	-0.03786	0.9541	0.969166	no
ytfI	0.372455	0.370095	-0.00917	0	1	1	no
yocS	8.49044	8.43742	-0.00904	-0.02995	0.97	0.976735	no
cgeD	1.10064	1.09494	-0.00749	-0.01507	0.965	0.973604	no
yloC	19.9398	19.8407	-0.00719	-0.02771	0.96865	0.975705	no
nrnA	19.1015	19.0083	-0.00706	-0.02737	0.9703	0.976735	no
sufC	88.2786	87.8937	-0.0063	-0.02561	0.9721	0.976735	no
yrzL	63.9896	63.7476	-0.00547	-0.01668	0.98665	0.988073	no
feuB	1.82581	1.82041	-0.00427	-0.00699	0.9774	0.980815	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
nupQ	3.89142	3.8805	-0.00405	-0.01094	0.98085	0.982956	no
desK	1.02193	1.01945	-0.00349	-0.00637	0.9592	0.970638	no
yclJ	5.73258	5.71879	-0.00347	-0.00738	0.9839	0.985748	no
dagK	9.11802	9.09692	-0.00334	-0.01106	0.99045	0.991447	no
ytkP	2.28794	2.28363	-0.00272	-0.00615	0.97255	0.976735	no
yqgY	162.186	161.888	-0.00265	-0.00962	0.99255	0.993082	no
degU	65.6531	65.5362	-0.00257	-0.01034	0.98675	0.988073	no
hemE	9.55069	9.54042	-0.00155	-0.00548	0.99065	0.991447	no
yhfW	0.199807	0.199659	-0.00107	0	1	1	no
dnaK	68.57	68.5664	-7.52E-05	-0.0003	0.999	0.999	no
yqgO	13.5894	13.6048	0.001637	0.001594	0.91265	0.946621	no
yclO	24.4356	24.4687	0.001954	0.00482	0.99455	0.994816	no
copA	1.24361	1.24546	0.002144	0.005717	0.9789	0.981792	no
yjgD	1.05469	1.05657	0.002571	0.002231	0.9515	0.968885	no
yoZS	14.9207	14.9514	0.002968	0.006516	0.97145	0.976735	no
yncE	4.35304	4.36672	0.004528	0.008853	0.96345	0.972858	no
fra	5.03724	5.05377	0.004726	0.008312	0.9587	0.970638	no
yvcB	8.75825	8.78798	0.004889	0.019014	0.97825	0.981404	no
yqeW	0.506165	0.508042	0.005341	0	1	1	no
zur	6.56755	6.59354	0.005697	0.012299	0.9712	0.976735	no
ytkA	11.6032	11.6553	0.006472	0.016433	0.9796	0.982231	no
trnJ-Gly	1051.54	1056.54	0.006845	0.01194	0.9591	0.970638	no
menF	6.58242	6.61418	0.006942	0.016876	0.9805	0.982869	no
tilS	13.2146	13.2815	0.007282	0.022211	0.97295	0.976874	no
gmk	41.4411	41.671	0.007981	0.0314	0.9632	0.972858	no
ytcA	0.152353	0.153211	0.008111	0	1	1	no
sufD	79.9144	80.4145	0.009001	0.02454	0.97195	0.976735	no
yizD	7.00901	7.05471	0.009376	0.005906	0.8672	0.92218	no
cotD	38.8654	39.1201	0.009421	0.021787	0.97065	0.976735	no
yvaM	1.09349	1.1011	0.010006	0.015484	0.94785	0.967807	no
yocH	20.3737	20.5282	0.0109	0.042089	0.95345	0.969166	no
tatAC	33.8365	34.1026	0.011303	0.019576	0.9587	0.970638	no
ktrC	21.3257	21.494	0.011341	0.041833	0.95335	0.969166	no
oppA	35.8355	36.1313	0.011859	0.048213	0.9448	0.967073	no
trnD-Asp	8174.84	8242.61	0.011912	0.039929	0.9505	0.968589	no
ytxH	75.1357	75.7741	0.012206	0.04835	0.9461	0.967343	no
oppD	20.2256	20.3989	0.012306	0.04855	0.94685	0.96758	no
yndA	1.0164	1.02546	0.012802	0.01106	0.90495	0.942299	no
cdoA	0.70505	0.711404	0.012943	0.011182	0.90495	0.942299	no
yrrB	4.43476	4.4766	0.013548	0.031605	0.97485	0.978519	no
ydcG	2.22223	2.24324	0.013576	0.014977	0.95505	0.969166	no
yhjG	0.94842	0.957797	0.014194	0.02883	0.964	0.972858	no
yheB	2.96401	2.99383	0.014444	0.038633	0.94785	0.967807	no
ylaE	5.37065	5.4263	0.014873	0.037143	0.9725	0.976735	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ykwB	6.93127	7.00525	0.015317	0.042914	0.94515	0.967166	no
dnaX	6.21538	6.28235	0.015461	0.056107	0.93745	0.962266	no
gutR	1.44862	1.46429	0.01552	0.043265	0.94685	0.96758	no
vmlR	1.52639	1.54332	0.015914	0.039615	0.9636	0.972858	no
tagO	16.7701	16.9651	0.016676	0.06495	0.9262	0.955632	no
ywtG	2.23815	2.2646	0.016954	0.044698	0.938	0.962266	no
yrbC	1.38636	1.40304	0.017253	0.028389	0.95095	0.968589	no
cotH	0.191281	0.193622	0.017547	0	1	1	no
yjzE	17.6306	17.8471	0.017607	0.034843	0.96565	0.973997	no
hemN	4.64252	4.70589	0.019562	0.058799	0.9313	0.95851	no
yvpB	2.96126	3.00239	0.019898	0.044811	0.96675	0.974782	no
ywmC	0.297915	0.302202	0.02061	0	1	1	no
ypjQ	44.506	45.15	0.020725	0.080758	0.90765	0.943477	no
iolG	0.882631	0.895548	0.020961	0.034646	0.9521	0.968958	no
argC	24.8277	25.211	0.022103	0.087994	0.90195	0.941588	no
pyrK	51.784	52.5889	0.022253	0.023437	0.97235	0.976735	no
rplI	20.7659	21.0899	0.022337	0.039502	0.9535	0.969166	no
mrpF	38.6199	39.2253	0.022443	0.040778	0.95455	0.969166	no
yfmF	24.9579	25.3692	0.023578	0.091926	0.89715	0.939045	no
mutS	4.32035	4.39179	0.023659	0.087408	0.89975	0.939767	no
yvmC	14.2908	14.5344	0.024393	0.085371	0.90445	0.942299	no
ywcD	8.31814	8.46801	0.025761	0.056262	0.9294	0.957346	no
scuA	13.2847	13.5255	0.025911	0.080394	0.90965	0.944559	no
dltA	30.1413	30.6883	0.025947	0.076935	0.9113	0.946009	no
-	237.634	242.031	0.02645	0.074516	0.91335	0.946913	no
yhdA	6.34676	6.4674	0.027167	0.039656	0.956	0.969765	no
gerAC	1.65975	1.69192	0.027699	0.052415	0.929	0.957198	no
ybxG	28.5963	29.1525	0.027791	0.112007	0.8731	0.925392	no
yvcD	5.13118	5.23304	0.028361	0.094309	0.8931	0.937278	no
pyrD	37.484	38.2336	0.028566	0.02999	0.96695	0.974782	no
uvrA	7.53532	7.68621	0.028604	0.113746	0.8777	0.926585	no
rlmCD	2.55911	2.61111	0.029026	0.079561	0.90465	0.942299	no
uvrB	4.25714	4.34517	0.029529	0.102822	0.88105	0.928495	no
galM	5.66804	5.78947	0.030583	0.092378	0.899	0.939507	no
xkdM	8.31109	8.49192	0.031054	0.075206	0.92235	0.952185	no
ygaD	3.54824	3.62723	0.031766	0.101138	0.8832	0.930025	no
iscSA	13.3896	13.6885	0.031854	0.12211	0.8613	0.919672	no
yqhR	0.27282	0.27897	0.032159	0	1	1	no
ykoT	0.112514	0.115055	0.032217	0	1	1	no
yabQ	12.6236	12.9182	0.033282	0.097249	0.8909	0.935863	no
yfkS	7.11698	7.28408	0.033482	0.031047	0.90455	0.942299	no
ynaB	12.6122	12.9085	0.033504	0.09121	0.8987	0.939459	no
yqeH	15.1174	15.4762	0.033836	0.130649	0.85155	0.915018	no
sdaAB	6.39031	6.54278	0.034017	0.092049	0.89755	0.939045	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ykul	12.1654	12.4571	0.034189	0.130725	0.8501	0.914099	no
yaaK	56.8446	58.2084	0.034203	0.116062	0.86795	0.922289	no
yrhK	2.27683	2.33222	0.03468	0.032157	0.90455	0.942299	no
dapX	17.6985	18.1358	0.035215	0.138833	0.8436	0.910669	no
yclG	0.137247	0.140653	0.035368	0	1	1	no
ymfl	2.25402	2.31	0.035394	0.071203	0.90785	0.943477	no
yfkT	2.56549	2.62991	0.035777	0.053773	0.93825	0.962266	no
yvzB	1.56453	1.60432	0.036227	0.047824	0.9353	0.961037	no
smpB	15.1628	15.5488	0.036265	0.106875	0.88575	0.931659	no
murAA	27.666	28.3813	0.03683	0.147992	0.83105	0.902338	no
ygaK	1.51536	1.55472	0.036997	0.085302	0.91395	0.946913	no
ytpA	12.9852	13.3286	0.037656	0.130803	0.8504	0.914099	no
trnB-Met3	675.972	693.979	0.037928	0.057882	0.94945	0.968576	no
ylmG	62.796	64.4709	0.037976	0.11778	0.86545	0.921731	no
yczE	3.52217	3.6171	0.038368	0.084867	0.90925	0.944406	no
levF	2.11105	2.16949	0.039396	0.081325	0.8964	0.939045	no
yknX	50.7616	52.1834	0.039853	0.161552	0.82195	0.894538	no
mobB	11.6834	12.0171	0.040621	0.083329	0.90225	0.941588	no
yutE	18.9089	19.4517	0.040832	0.123293	0.86245	0.920374	no
trnB-Ser2	394.741	406.124	0.041016	0.06504	0.9499	0.968576	no
ysgA	3.86409	3.9758	0.041116	0.101086	0.88125	0.928495	no
lonA	10.193	10.4964	0.042319	0.13842	0.8409	0.909082	no
ygaF	13.7152	14.1237	0.042349	0.122316	0.86345	0.920549	no
ycbD	0.130669	0.134649	0.043278	0	1	1	no
trmL	13.043	13.4414	0.043401	0.124987	0.8544	0.915505	no
yyzO	10.7381	11.0661	0.043405	0.030903	0.94425	0.966775	no
ppiB	40.9237	42.1829	0.043724	0.159088	0.8169	0.891611	no
sdpB	172.18	177.493	0.043843	0.140411	0.83585	0.905343	no
spoVAEB	0.436425	0.449983	0.044134	0	1	1	no
trpA	26.4597	27.2879	0.044469	0.118015	0.8675	0.92218	no
glcT	9.42773	9.7229	0.044477	0.146509	0.8347	0.904723	no
yisS	0.967942	0.998446	0.044764	0.077092	0.9184	0.94942	no
yobB	28.262	29.1566	0.044961	0.109014	0.8717	0.924276	no
cueR	35.8138	36.966	0.045685	0.162037	0.81475	0.89039	no
yclK	3.24115	3.34546	0.045702	0.117244	0.86955	0.922939	no
lipC	4.36143	4.50342	0.046218	0.11005	0.8747	0.926562	no
fhuG	7.58243	7.8305	0.046444	0.12794	0.8547	0.915505	no
ydzW	32.2456	33.3011	0.046471	0.076784	0.89925	0.939507	no
asnS	35.4034	36.5735	0.046911	0.190166	0.78075	0.869207	no
citB	79.8575	82.5599	0.048014	0.174759	0.80115	0.880628	no
hemD	11.3333	11.7176	0.048111	0.097887	0.8851	0.9315	no
yacD	6.5512	6.78226	0.050006	0.152279	0.836	0.905343	no
yozB	22.4759	23.2853	0.051042	0.177562	0.7979	0.878867	no
speE	10.9636	11.3653	0.051913	0.17659	0.8007	0.880628	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yfjQ	4.45388	4.61831	0.052302	0.14764	0.8324	0.903016	no
yqfO	10.2942	10.6771	0.052686	0.158662	0.8199	0.892991	no
yxiT	3.83571	3.97866	0.052787	0.094775	0.88055	0.928334	no
folN	6.31164	6.54861	0.053174	0.134621	0.8452	0.911557	no
tagF	8.66955	8.99604	0.053333	0.147699	0.83435	0.904606	no
menH	8.01733	8.32974	0.055149	0.108261	0.87555	0.926585	no
ywqF	4.30747	4.47797	0.056005	0.172495	0.80175	0.880879	no
pyrG	13.1737	13.6992	0.05644	0.223424	0.75105	0.851631	no
yjcD	0.985915	1.0253	0.056505	0.138067	0.8414	0.909082	no
ytxG	58.7443	61.1191	0.057174	0.220387	0.7523	0.851748	no
yefB	0.968193	1.00744	0.057321	0.085247	0.8968	0.939045	no
yvcT	18.2768	19.02	0.057506	0.223139	0.75215	0.851748	no
ggaA	6.17955	6.43236	0.057846	0.19792	0.77655	0.865974	no
panC	22.8432	23.7843	0.058243	0.227407	0.74535	0.847226	no
yfhK	15.7896	16.449	0.059022	0.184513	0.7934	0.876236	no
rsbRD	3.13808	3.26942	0.059152	0.143284	0.84245	0.909953	no
dynA	2.37551	2.47579	0.059649	0.210942	0.7711	0.863543	no
spoVS	108.825	113.423	0.059702	0.207517	0.7673	0.860636	no
ysmA	4.47944	4.66902	0.059803	0.116076	0.87665	0.926585	no
ysxC	25.0626	26.1456	0.061034	0.127219	0.85945	0.919011	no
pit	6.56925	6.85558	0.06155	0.193266	0.78685	0.873914	no
rsbRC	4.17597	4.35967	0.062108	0.16561	0.8039	0.882352	no
rsbP	3.75582	3.92145	0.062259	0.180834	0.79715	0.878559	no
zwf	33.4246	34.9019	0.062395	0.252783	0.7125	0.821618	no
sigB	25.8019	26.9509	0.062855	0.122016	0.86095	0.919562	no
ydzW	8.88301	9.27937	0.06298	0.075788	0.90775	0.943477	no
ycbL	1.3263	1.38555	0.06305	0.098288	0.8777	0.926585	no
ypsC	6.56638	6.86329	0.063802	0.21133	0.7715	0.863543	no
sdpA	166.756	174.374	0.06444	0.119552	0.86345	0.920549	no
gcvPB	12.1285	12.6841	0.064619	0.179141	0.79215	0.875374	no
recG	3.82461	4.00136	0.065176	0.190298	0.7878	0.874449	no
ywcC	2.15718	2.25714	0.065353	0.123096	0.87095	0.924162	no
trnSL-Ser1	1909.46	1998	0.065395	0.187077	0.7913	0.875212	no
rnpZA	144.681	151.421	0.065692	0.204386	0.77385	0.865101	no
ykoM	7.05088	7.3796	0.065739	0.155145	0.8211	0.893874	no
yusT	0.786427	0.823137	0.06582	0.095037	0.8967	0.939045	no
ydcI	3.42114	3.58223	0.066381	0.224387	0.75785	0.854412	no
mntR	27.1004	28.3775	0.066429	0.218933	0.76245	0.857785	no
phy	0.491527	0.515008	0.067324	0.090942	0.915	0.947217	no
ycdA	25.6336	26.8592	0.067381	0.268306	0.70115	0.811309	no
pyrF	51.4584	53.9353	0.067824	0.06863	0.91945	0.950243	no
yycS	2.27943	2.39245	0.069819	0.095768	0.90745	0.943477	no
accD	31.7326	33.3228	0.070544	0.187072	0.7882	0.874633	no
ycgE	2.26757	2.38313	0.071709	0.108648	0.85985	0.919019	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
rbn	4.60107	4.83738	0.072258	0.196457	0.77405	0.865101	no
ntdA	2.11703	2.22687	0.072975	0.168738	0.8025	0.881334	no
lcfA	2.84318	2.99143	0.073333	0.217923	0.75875	0.854878	no
csn	19.3378	20.3508	0.073661	0.282028	0.67755	0.794882	no
yabD	7.56433	7.96261	0.074029	0.219862	0.75245	0.851748	no
yfmO	0.778555	0.819597	0.074116	0.125898	0.85995	0.919019	no
trnI-Gly	1237.79	1304.64	0.075885	0.1441	0.83495	0.904731	no
rpmEB	16.1014	16.9718	0.07595	0.140016	0.84135	0.909082	no
glgB	0.364637	0.384657	0.077111	0	1	1	no
ytsP	9.99618	10.545	0.077115	0.208923	0.76165	0.857143	no
trnSL-Ala1	726.594	766.598	0.077321	0.109215	0.8649	0.921462	no
fhuB	4.58769	4.84078	0.07747	0.18031	0.80105	0.880628	no
gabP	11.7179	12.3694	0.078066	0.302393	0.6694	0.788983	no
yoaE	9.54779	10.0792	0.078143	0.308574	0.65905	0.78074	no
ywjA	10.2163	10.7855	0.078226	0.306474	0.65715	0.778984	no
hom	90.4399	95.5472	0.079254	0.198022	0.77365	0.865101	no
hepA	3.18556	3.36694	0.079892	0.261494	0.7142	0.822839	no
pksB	5.5032	5.81675	0.079944	0.211719	0.7667	0.860492	no
pyrE	50.3863	53.2597	0.080012	0.076798	0.90865	0.944045	no
ydiF	2.52882	2.67421	0.08065	0.242858	0.7315	0.836064	no
coaE	6.58319	6.96221	0.080759	0.21179	0.7645	0.859315	no
ytsJ	12.713	13.4463	0.080894	0.311521	0.65585	0.778184	no
yfjO	1.82855	1.93406	0.080935	0.203025	0.77715	0.865974	no
ydbD	1.16491	1.23219	0.081006	0.134186	0.8546	0.915505	no
sigA	58.3584	61.7342	0.081128	0.329295	0.63405	0.760779	no
thiE	7.45422	7.88585	0.081209	0.211117	0.76695	0.860514	no
yvrC	11.0903	11.7327	0.08124	0.242208	0.72275	0.829618	no
yrzR	4.75328	5.02876	0.081278	0.056525	0.8769	0.926585	no
yjbB	1.08755	1.15064	0.081357	0.158409	0.8198	0.892991	no
yjcG	59.7841	63.2915	0.08225	0.325848	0.6419	0.766748	no
ydgJ	1.97575	2.09218	0.082609	0.124149	0.84425	0.911107	no
ydaG	33.5683	35.5486	0.082691	0.28719	0.683	0.797824	no
spoIVFB	0.647703	0.685929	0.082728	0.105712	0.89055	0.935863	no
nrdF	18.5726	19.6773	0.083358	0.324861	0.6432	0.767564	no
yoaS	1.82791	1.93693	0.083574	0.119516	0.85015	0.914099	no
tuaE	0.560521	0.594021	0.083745	0.136574	0.84845	0.913527	no
walH	5.59992	5.9346	0.083746	0.184019	0.78995	0.874755	no
fmnP	6.65114	7.04905	0.083828	0.218761	0.75685	0.853655	no
alsT	12.6247	13.3884	0.084737	0.331131	0.63635	0.763048	no
yyaP	2.79007	2.95942	0.085009	0.161892	0.81165	0.888769	no
phoH	16.0363	17.0123	0.085234	0.313167	0.662	0.782993	no
rapG	19.8098	21.0187	0.085463	0.337137	0.62575	0.754456	no
cstA	2.08358	2.21087	0.085551	0.241058	0.73265	0.83698	no
yvKB	2.16417	2.29662	0.085693	0.147456	0.8399	0.908993	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywoB	1.78847	1.89792	0.085699	0.108132	0.86915	0.922777	no
ycsD	13.1242	13.9278	0.08573	0.224284	0.74315	0.84524	no
nprE	1.88477	2.0002	0.085756	0.225775	0.7506	0.851379	no
hbs	779.373	827.331	0.086151	0.348736	0.6163	0.749597	no
rtp	4.0076	4.25601	0.086762	0.137613	0.8473	0.913342	no
yvyI	4.53646	4.81886	0.087124	0.245862	0.7247	0.831007	no
cypB	2.18431	2.32031	0.087138	0.291221	0.67845	0.795145	no
ydzW	39.6879	42.1818	0.087918	0.107433	0.89005	0.935863	no
yhjE	4.9291	5.23945	0.088091	0.217006	0.75435	0.85238	no
trnSL-Val2	16670	17724.6	0.088497	0.313329	0.65385	0.77667	no
yobW	0.48078	0.511339	0.088905	0.072762	0.8951	0.938322	no
mobA	4.06749	4.32629	0.088989	0.201388	0.7733	0.865101	no
spsI	0.306758	0.326283	0.08902	0	1	1	no
coxA	3.49247	3.71554	0.089327	0.190174	0.78905	0.874755	no
miaB	9.62365	10.2389	0.089407	0.342528	0.62155	0.752063	no
mnaA	3.02813	3.22211	0.08958	0.242466	0.7278	0.832855	no
mtnW	21.9824	23.4132	0.090973	0.224939	0.74095	0.843251	no
tetL	175.234	186.68	0.091287	0.063872	0.8528	0.915505	no
mnmA	17.8488	19.0263	0.092168	0.362403	0.59845	0.736469	no
ywqB	1.78753	1.90607	0.09263	0.166008	0.8148	0.89039	no
yerB	26.5798	28.3447	0.092745	0.368904	0.6043	0.74055	no
yfjR	2.99075	3.19206	0.093981	0.225735	0.75275	0.851748	no
yqgM	0.807636	0.862171	0.094269	0.133226	0.85855	0.918312	no
desR	2.29616	2.45148	0.094431	0.172994	0.8058	0.883838	no
yyaL	3.3881	3.61735	0.094458	0.221778	0.7447	0.846745	no
ywdI	8.84444	9.44569	0.094885	0.182751	0.7975	0.878685	no
yfhl	0.763055	0.815706	0.096261	0.163904	0.8071	0.884565	no
ycdG	1.29266	1.3821	0.096511	0.231104	0.74825	0.849488	no
yybB	3.61519	3.8659	0.09673	0.221149	0.7522	0.851748	no
yutI	99.0009	105.896	0.097133	0.37613	0.592	0.731056	no
bkdB	8.0071	8.57439	0.098754	0.355978	0.6082	0.743621	no
ureB	5.95623	6.37992	0.099141	0.109644	0.8718	0.924276	no
yneN	14.751	15.8029	0.09938	0.303781	0.6696	0.788983	no
rimP	40.3421	43.2432	0.100188	0.378192	0.5862	0.726235	no
ytxC	5.75605	6.17001	0.100193	0.290045	0.68075	0.796458	no
cotJB	0.612129	0.656516	0.100995	0.053901	0.50845	0.659678	no
yqxA	0.315426	0.338497	0.10184	0	1	1	no
glxK	2.61846	2.81005	0.101874	0.26596	0.6975	0.808724	no
yutG	0.145584	0.15629	0.102373	0	1	1	no
yqfQ	0.080279	0.086195	0.102581	0	1	1	no
iolE	0.440101	0.472542	0.102609	0	1	1	no
citM	0.237285	0.254779	0.102629	0	1	1	no
gsaB	8.54436	9.17717	0.103075	0.377171	0.587	0.726502	no
trmK	14.4404	15.5101	0.103095	0.257779	0.7184	0.825895	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yjqC	2.28161	2.45151	0.103617	0.224346	0.7539	0.85238	no
yvoF	19.5927	21.0534	0.103739	0.34433	0.62555	0.754456	no
yoZC	42.4246	45.5927	0.103902	0.21873	0.7544	0.85238	no
engA	16.1415	17.3528	0.10439	0.412025	0.5524	0.698024	no
ygzD	16.5692	17.82	0.104991	0.146981	0.82685	0.899248	no
panD	15.5611	16.7547	0.106619	0.289948	0.6833	0.797824	no
ykuS	50.4444	54.3618	0.107898	0.292825	0.6727	0.791387	no
yjcO	2.79609	3.01341	0.107983	0.179662	0.79185	0.875374	no
ohrR	3.1661	3.41389	0.108711	0.185449	0.79625	0.878345	no
ycdF	2.04308	2.20322	0.108872	0.220543	0.75695	0.853655	no
yycN	2.41118	2.60076	0.109198	0.173873	0.80275	0.881349	no
citZ	108.64	117.192	0.109319	0.434638	0.5369	0.685396	no
ygxA	8.5422	9.21717	0.109717	0.358453	0.61535	0.749174	no
spolIIE	5.243	5.66119	0.110711	0.420537	0.54945	0.6956	no
ddl	9.72918	10.5054	0.110743	0.396453	0.5701	0.714107	no
yitL	7.22405	7.80063	0.110782	0.346697	0.62415	0.7535	no
kdgT	1.65001	1.78202	0.111104	0.232708	0.74205	0.844246	no
yhcK	4.3355	4.68327	0.111318	0.323632	0.6495	0.773846	no
ycsA	1.77949	1.92308	0.111949	0.249015	0.727	0.832705	no
yhbE	3.37389	3.64989	0.113438	0.232034	0.73905	0.842116	no
ylxM	42.5135	46.0193	0.114317	0.368279	0.59965	0.737029	no
mraZ	44.8228	48.5252	0.1145	0.428207	0.545	0.691717	no
yqxD	37.3772	40.4734	0.114816	0.430552	0.54015	0.688432	no
tcyA	4.14235	4.4898	0.116199	0.27929	0.69115	0.80342	no
yoZ0	23.2142	25.1682	0.116595	0.329575	0.64215	0.766801	no
ctaA	5.17357	5.61222	0.117409	0.342074	0.63235	0.75996	no
yoyA	5.78044	6.27195	0.117736	0.178921	0.80015	0.880566	no
ylbL	3.30509	3.58637	0.117832	0.316735	0.6522	0.775578	no
rsbW	65.5095	71.1494	0.119147	0.264875	0.7041	0.814276	no
ywdD	6.04607	6.56985	0.119864	0.27018	0.6945	0.805862	no
recO	14.6597	15.9298	0.11987	0.428853	0.5404	0.688452	no
ytrB	4.74917	5.1629	0.120504	0.275086	0.69805	0.808724	no
thrB	89.9111	97.8153	0.121561	0.250139	0.72625	0.832101	no
ykpA	22.6253	24.62	0.121894	0.491183	0.4846	0.638627	no
ydaT	1.78642	1.94413	0.122057	0.161698	0.8172	0.891611	no
comS	281.804	306.692	0.122101	0.006702	0.94605	0.967343	no
bioYB	41.5099	45.1908	0.122574	0.482434	0.49	0.64402	no
ccdA	6.97403	7.59257	0.122596	0.352081	0.6226	0.753027	no
mdxG	0.459064	0.499849	0.122798	0	1	1	no
yjbE	1.10939	1.20801	0.122868	0.175447	0.8062	0.883838	no
alrA	5.84229	6.36529	0.123691	0.39998	0.57945	0.721222	no
opuD	6.60793	7.20066	0.12393	0.4496	0.5225	0.672069	no
ispA	8.23416	8.97545	0.124362	0.277187	0.6915	0.80342	no
ywbl	2.57086	2.8024	0.124412	0.293297	0.68	0.796458	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yfhE	95.3456	103.955	0.124724	0.14839	0.83045	0.902211	no
ppaX	6.01848	6.56463	0.125316	0.190148	0.7828	0.870451	no
fer	218.456	238.328	0.125605	0.485568	0.49625	0.648809	no
ugtP	17.3369	18.9245	0.12641	0.49766	0.47455	0.631268	no
resE	7.21282	7.87443	0.126611	0.396109	0.57385	0.716401	no
clpY	16.0215	17.4922	0.126699	0.503047	0.4731	0.630013	no
yybG	1.62304	1.77236	0.126974	0.244683	0.72485	0.831007	no
ybbR	8.2303	8.98989	0.127359	0.396565	0.5747	0.716983	no
tsaC	2.4267	2.6511	0.127593	0.313112	0.65395	0.77667	no
dnaC	3.92744	4.29611	0.129441	0.394965	0.58025	0.721451	no
yvzE	4.15349	4.54356	0.129497	0.296199	0.67775	0.794882	no
kapB	12.8884	14.1016	0.12979	0.336682	0.63115	0.758762	no
ilvD	33.5578	36.721	0.129954	0.527146	0.4548	0.614099	no
pksE	4.65806	5.09735	0.130017	0.4061	0.5571	0.701589	no
ykyB	9.41798	10.3114	0.130754	0.341502	0.6279	0.756072	no
kdul	11.6417	12.7475	0.130918	0.454973	0.52165	0.671206	no
ybaN	2.61217	2.86037	0.130954	0.287346	0.6813	0.796735	no
yceB	0.608195	0.666174	0.131364	0.1804	0.79705	0.878559	no
bshBB	17.8652	19.5691	0.131419	0.470607	0.50715	0.65822	no
cysH	73.0664	80.0453	0.131608	0.531925	0.44975	0.610013	no
lonB	0.146291	0.160287	0.131813	0	1	1	no
gspA	11.0387	12.0964	0.132007	0.458149	0.5114	0.662354	no
ytxD	3.95598	4.33565	0.132214	0.28303	0.685	0.79881	no
hflX	3.71057	4.06834	0.132797	0.392021	0.5804	0.721451	no
ypbE	9.145	10.0321	0.133573	0.342123	0.6302	0.757864	no
rpoZ	185.277	203.334	0.134166	0.438878	0.5402	0.688432	no
yczI	95.4438	104.807	0.135016	0.433758	0.5429	0.69093	no
znuA	10.8592	11.9318	0.135893	0.48604	0.482	0.637066	no
ynaE	3.56036	3.91315	0.136306	0.306249	0.662	0.782993	no
yoyG	100.102	110.033	0.136464	0.173519	0.806	0.883838	no
yshB	11.3395	12.4685	0.136931	0.398057	0.57585	0.717938	no
ylaA	0.300154	0.330179	0.137543	0	1	1	no
yvzA	8.27057	9.09934	0.137775	0.287322	0.68395	0.798084	no
folB	25.2755	27.8143	0.138088	0.165082	0.8162	0.891611	no
yxzJ	46.0326	50.66	0.138191	0.159761	0.8062	0.883838	no
yraL	7.40298	8.1481	0.138358	0.199795	0.7689	0.861666	no
ybaC	2.07444	2.28382	0.138726	0.310502	0.6656	0.785757	no
yfmJ	3.96755	4.37009	0.139415	0.392559	0.58315	0.723656	no
fbp	4.67782	5.15306	0.139592	0.496308	0.48215	0.637066	no
arsR	3.90582	4.30404	0.140068	0.192116	0.7836	0.870822	no
kduD	7.09459	7.82186	0.140792	0.417422	0.5609	0.705311	no
secDF	30.3595	33.4813	0.141204	0.571817	0.4119	0.573894	no
yraO	2.20435	2.43215	0.141881	0.371372	0.6059	0.741294	no
yczN	16.4612	18.1683	0.142356	0.099282	0.8528	0.915505	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
pksG	5.08002	5.61296	0.143926	0.404873	0.56165	0.705479	no
nap	13.7099	15.1622	0.145254	0.53743	0.4453	0.606247	no
yvgM	1.7604	1.94708	0.145409	0.208231	0.7644	0.859315	no
ylxX	7.78236	8.61097	0.145967	0.431674	0.54235	0.690465	no
exuR	4.96501	5.49371	0.145985	0.433588	0.5437	0.691197	no
yugP	3.31837	3.67194	0.146067	0.328573	0.6464	0.770644	no
codY	23.4487	25.9634	0.146972	0.570242	0.42075	0.582961	no
bsn	2.21791	2.45656	0.147439	0.324012	0.64575	0.770115	no
bacG	7.5105	8.32268	0.148139	0.518851	0.45905	0.616647	no
ahpF	70.9135	78.5902	0.148288	0.592387	0.407	0.569617	no
ypmP	161.255	178.8	0.148998	0.554638	0.4265	0.587943	no
ypqP	2.75754	3.05795	0.149183	0.297387	0.67265	0.791387	no
gyrA	20.9607	23.2462	0.149309	0.606361	0.3831	0.546479	no
pbuO	2.98604	3.31362	0.150177	0.423462	0.54385	0.691197	no
yfkN	2.50247	2.7794	0.151417	0.569337	0.41215	0.574022	no
yneF	111.696	124.092	0.151835	0.462052	0.5144	0.665086	no
gsiB	17.2856	19.2147	0.152636	0.41942	0.54695	0.693484	no
lytS	1.97396	2.19445	0.152764	0.360541	0.60125	0.737842	no
trnY-Glu	810.167	900.859	0.153081	0.228755	0.74585	0.847392	no
ydcA	4.98594	5.54498	0.153316	0.374187	0.59105	0.730305	no
spsL	1.5425	1.71548	0.153344	0.181441	0.7921	0.875374	no
cotF	0.681579	0.758178	0.153655	0.132941	0.86075	0.919562	no
ynal	1.69917	1.89059	0.154007	0.210182	0.76115	0.856839	no
ytnP	35.0452	38.9939	0.15403	0.613182	0.3808	0.544244	no
yqhG	0.586974	0.653345	0.154549	0.186785	0.7904	0.874807	no
ypiP	6.54173	7.28303	0.154868	0.451595	0.5172	0.667219	no
yxkI	3.13884	3.4976	0.156133	0.481	0.49045	0.644164	no
ywdE	3.85408	4.29683	0.156884	0.32701	0.64765	0.771888	no
dxs	16.8262	18.7598	0.156938	0.526309	0.4549	0.614099	no
yerO	1.69341	1.88817	0.157058	0.316248	0.6533	0.77651	no
thyA	3.23244	3.6051	0.157415	0.389517	0.5853	0.725842	no
pucF	0.646026	0.720695	0.157797	0.252917	0.7166	0.825047	no
kinA	2.58735	2.88653	0.157862	0.475414	0.50285	0.654068	no
slrR	3.92974	4.38581	0.15841	0.303721	0.667	0.786912	no
sigF	2.78281	3.10731	0.159122	0.359917	0.60985	0.74515	no
nusA	40.5429	45.3152	0.160545	0.648888	0.35	0.517169	no
artQ	25.6052	28.6224	0.160709	0.396776	0.5707	0.714619	no
penP	11.3758	12.7245	0.161632	0.578569	0.4046	0.567108	no
ltaSC	19.2407	21.5285	0.162081	0.653715	0.34795	0.515165	no
ptkA	8.35401	9.36622	0.164999	0.337304	0.6249	0.754162	no
yjdA	5.5213	6.19056	0.165061	0.459217	0.52055	0.670022	no
yisY	0.496219	0.556388	0.165115	0.184257	0.78965	0.874755	no
prsA	36.6053	41.0539	0.165467	0.662688	0.3511	0.517514	no
argI	3.91501	4.39088	0.165496	0.443111	0.5253	0.67474	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
azlD	4.57382	5.13157	0.166001	0.214603	0.7608	0.856703	no
pheA	5.7104	6.40889	0.166484	0.485062	0.4952	0.647663	no
rsbRA	10.9645	12.3084	0.166813	0.571789	0.4175	0.579965	no
yisK	8.33672	9.36174	0.167298	0.549329	0.4341	0.596149	no
dapF	8.58164	9.63876	0.167595	0.542803	0.44265	0.604098	no
yqfU	8.33037	9.357	0.167666	0.543246	0.44525	0.606247	no
cotU	2.15071	2.41631	0.167995	0.126125	0.87605	0.926585	no
murC	17.2539	19.3921	0.168546	0.66973	0.3372	0.506071	no
yjcS	7.70031	8.65467	0.168562	0.309218	0.6609	0.782435	no
yitH	4.82153	5.41936	0.168632	0.469951	0.5029	0.654068	no
bshC	6.51574	7.32597	0.169091	0.621887	0.37735	0.5411	no
yhdT	12.4184	13.964	0.169235	0.661338	0.3424	0.509574	no
rapJ	6.2418	7.02156	0.169829	0.554752	0.4332	0.595351	no
prfA	16.5606	18.6316	0.169997	0.663778	0.3414	0.509507	no
sfp	9.96433	11.2195	0.171159	0.125122	0.87595	0.926585	no
hemY	4.41114	4.96749	0.171366	0.547517	0.4382	0.599794	no
yoxD	17.0077	19.1594	0.171863	0.625397	0.3705	0.534976	no
degA	1.98773	2.24012	0.172455	0.391291	0.57975	0.721355	no
prpE	0.759204	0.855862	0.17289	0.220088	0.75445	0.85238	no
yxal	49.9936	56.3679	0.173131	0.668577	0.3424	0.509574	no
polC	4.88045	5.50382	0.17342	0.689904	0.32945	0.497993	no
sodA	211.941	239.08	0.17383	0.697579	0.324	0.492797	no
mrpG	44.3092	49.9995	0.174305	0.497556	0.4763	0.632536	no
crh	67.8335	76.5642	0.174671	0.534801	0.4524	0.612051	no
yesF	0.884679	0.998646	0.17482	0.249232	0.7253	0.831268	no
gpsA	14.7634	16.6702	0.175246	0.672507	0.3392	0.508052	no
yoyC	17.6958	19.9871	0.175666	0.318796	0.65155	0.775546	no
yybS	7.72714	8.72849	0.175798	0.570725	0.41605	0.57845	no
ctpA	9.89741	11.1815	0.175994	0.674286	0.3389	0.507806	no
yezG	10.4889	11.8516	0.17622	0.47301	0.5019	0.653678	no
yvcN	24.4756	27.668	0.176876	0.688256	0.3277	0.495799	no
dltB	32.7902	37.0918	0.177832	0.489841	0.48625	0.639992	no
odhB	105.459	119.32	0.178145	0.702918	0.31245	0.481307	no
yhfF	7.20612	8.15353	0.178202	0.396634	0.57115	0.714943	no
yxdK	1.68191	1.90323	0.178344	0.342551	0.61865	0.749768	no
yscB	9.43432	10.676	0.178377	0.542964	0.4409	0.602386	no
rpmGA	427.317	483.623	0.178575	0.551306	0.4361	0.598236	no
yodC	21.1706	23.9719	0.179285	0.649462	0.3564	0.521268	no
ylbN	97.6078	110.526	0.179312	0.721395	0.29965	0.469728	no
yncF	7.82891	8.86743	0.179704	0.427778	0.5434	0.691197	no
rsbQ	4.97349	5.63383	0.179857	0.499404	0.47635	0.632536	no
yocD	13.7805	15.6138	0.180198	0.680637	0.3316	0.499648	no
sipS	5.9426	6.73493	0.180568	0.447455	0.53395	0.6835	no
ftsY	9.44639	10.7104	0.181176	0.635482	0.36815	0.533025	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yhdN	5.30937	6.01988	0.181193	0.543783	0.44405	0.60514	no
yfjM	2.1679	2.45887	0.181696	0.268061	0.699	0.809574	no
lepA	9.94328	11.2801	0.181981	0.716843	0.3039	0.47341	no
tcyB	2.19726	2.49405	0.182786	0.292753	0.67835	0.795145	no
dapG	17.2076	19.5424	0.183557	0.723869	0.3035	0.473337	no
yqfW	5.3483	6.07554	0.183933	0.453564	0.5193	0.669105	no
ykol	1.35355	1.5376	0.183938	0.252158	0.7289	0.833831	no
ypuF	1.64391	1.86801	0.18437	0.268034	0.71245	0.821618	no
uppS	26.0909	29.6485	0.184413	0.722601	0.3041	0.473482	no
ylxR	129.176	146.84	0.184904	0.69384	0.3178	0.486737	no
carA	31.6822	36.035	0.185723	0.328665	0.6383	0.764649	no
ytcl	4.39381	4.99818	0.185931	0.616586	0.39045	0.552041	no
deaD	6.65511	7.57119	0.186059	0.668216	0.3409	0.509372	no
yphF	15.8698	18.0634	0.186782	0.674341	0.3352	0.503272	no
tsaE	11.5864	13.1901	0.18702	0.390853	0.58295	0.723656	no
moeB	5.29187	6.02786	0.187869	0.568543	0.42515	0.587235	no
levR	1.09992	1.25293	0.187914	0.514001	0.46615	0.623202	no
yndB	18.2556	20.8026	0.188428	0.567586	0.4315	0.59367	no
xynC	4.16671	4.74842	0.188538	0.576533	0.4212	0.583368	no
ypmB	104.084	118.648	0.188933	0.760402	0.2758	0.441801	no
znuB	4.06856	4.64067	0.189813	0.363884	0.60355	0.739935	no
nifS	17.9217	20.4483	0.190274	0.672536	0.32955	0.497993	no
pckA	3.72988	4.25738	0.190834	0.605005	0.3935	0.554255	no
yeeA	1.6717	1.90895	0.191464	0.571623	0.4203	0.582554	no
ytjP	7.24531	8.27503	0.191716	0.694032	0.32455	0.492906	no
cysE	18.9463	21.6421	0.191931	0.53186	0.4476	0.608202	no
paiB	2.93889	3.35728	0.19202	0.400144	0.5731	0.715944	no
dltE	19.0447	21.7669	0.192748	0.726653	0.30445	0.473673	no
dltD	24.9618	28.5437	0.193452	0.726555	0.299	0.469103	no
infB	36.5834	41.8555	0.194229	0.701651	0.31515	0.484068	no
yqkC	27.9106	31.9351	0.194331	0.432142	0.53845	0.68714	no
yqjM	2.42879	2.77975	0.194718	0.477643	0.50005	0.652406	no
dacA	16.3496	18.726	0.19579	0.777023	0.262	0.426836	no
recR	16.8013	19.2459	0.195979	0.667219	0.34685	0.514352	no
gabR	0.358399	0.410577	0.196086	0	1	1	no
rsbV	88.8853	101.831	0.196164	0.346237	0.6232	0.753328	no
tepA	0.43836	0.50243	0.196805	0	1	1	no
ydiL	6.10629	6.99912	0.196876	0.546786	0.434	0.596149	no
kdgA	1.11873	1.28241	0.196985	0.266261	0.7075	0.817137	no
sufU	106.011	121.551	0.197339	0.29232	0.6837	0.798042	no
phrC	1675	1920.63	0.197419	0.345093	0.6213	0.752005	no
prsW	11.8111	13.557	0.198893	0.639016	0.37375	0.537797	no
yjaU	1.15922	1.33278	0.20129	0.315899	0.6534	0.77651	no
purU	10.6874	12.289	0.201453	0.707998	0.31495	0.484068	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ypvA	4.62482	5.31793	0.201467	0.718827	0.29945	0.469612	no
rnjB	23.5893	27.1318	0.201853	0.815536	0.23985	0.404278	no
mrpE	9.97214	11.4707	0.201974	0.350043	0.6124	0.747349	no
cotSA	0.130695	0.150357	0.202195	0	1	1	no
ytpR	16.276	18.7283	0.202478	0.689331	0.3324	0.500275	no
yqeM	30.8752	35.535	0.202792	0.655857	0.3493	0.516549	no
yxQ	3.18218	3.66429	0.203516	0.456716	0.51555	0.666075	no
yrzB	107.906	124.269	0.203691	0.750122	0.28275	0.450501	no
nusG	19.0609	21.9603	0.204281	0.688886	0.32675	0.494963	no
yfiY	30.3809	35.0127	0.204712	0.819475	0.24605	0.410157	no
csH	29.4432	33.9423	0.205153	0.830027	0.2405	0.404517	no
arxR	6.24335	7.19758	0.205191	0.368595	0.6072	0.742642	no
yqfD	1.18484	1.36694	0.20625	0.228873	0.75165	0.851748	no
yoaO	2.01718	2.32737	0.206355	0.313627	0.6569	0.778984	no
yvbJ	12.5408	14.4767	0.207104	0.825236	0.2382	0.403275	no
pdp	3.57108	4.12375	0.207594	0.614024	0.38935	0.55153	no
yjFB	59.3237	68.5049	0.207597	0.389045	0.5857	0.72598	no
yabS	2.66263	3.07617	0.208282	0.431691	0.5292	0.678583	no
mtnE	7.54628	8.72052	0.208648	0.734344	0.29795	0.468439	no
fin	45.6595	52.7721	0.208862	0.526657	0.45025	0.61047	no
upp	20.7006	23.9257	0.208887	0.763533	0.27755	0.443842	no
ptb	3.95178	4.56857	0.209239	0.568564	0.42465	0.586841	no
rpsL	1123.23	1298.84	0.209565	0.746494	0.2828	0.450501	no
malS	25.5423	29.5411	0.209838	0.849339	0.22795	0.393684	no
yvrD	3.91586	4.52955	0.210038	0.541147	0.4425	0.604098	no
mgfK	11.6286	13.4538	0.21034	0.766297	0.27125	0.436008	no
yjcF	21.0003	24.3143	0.211394	0.652224	0.3537	0.519149	no
yaaL	18.2199	21.1033	0.211951	0.370585	0.59865	0.736469	no
atpC	119.622	138.582	0.212257	0.848573	0.22905	0.395045	no
lplJ	9.85165	11.4202	0.21315	0.75753	0.28415	0.451881	no
ispE	14.1855	16.4442	0.213159	0.78919	0.25915	0.423383	no
bioW	49.276	57.1397	0.213609	0.343935	0.6181	0.74971	no
mfd	6.47598	7.51008	0.21373	0.852291	0.2261	0.391482	no
yeaB	1.36812	1.58693	0.21405	0.395622	0.57605	0.717947	no
ykrA	6.17661	7.16533	0.214219	0.61493	0.3872	0.549109	no
ykvA	5.65112	6.55624	0.214332	0.352527	0.6123	0.747349	no
nasD	1.22285	1.4189	0.214515	0.579523	0.4098	0.571821	no
rpsB	108.39	125.804	0.214943	0.86976	0.2176	0.383263	no
ytmP	13.7926	16.0106	0.215137	0.702702	0.3232	0.491981	no
lcfB	0.623288	0.723783	0.215658	0.3888	0.5884	0.727753	no
nasF	4.09601	4.75647	0.215674	0.684522	0.33315	0.501	no
yusZ	3.01367	3.50036	0.215983	0.525062	0.4543	0.613867	no
ytpP	23.8845	27.7492	0.216374	0.594592	0.39085	0.552188	no
ydgD	52.6915	61.2301	0.21667	0.628645	0.36735	0.53228	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
nadC	44.4414	51.6455	0.216738	0.378482	0.59205	0.731056	no
cdnD	10.5369	12.2513	0.217481	0.776519	0.2611	0.425927	no
opuBB	6.02661	7.00732	0.217515	0.58949	0.39485	0.555737	no
ytnA	14.3444	16.7024	0.219575	0.8667	0.2198	0.385047	no
ymfM	8.65572	10.0826	0.220137	0.723145	0.3019	0.472421	no
ytjA	42.8072	49.9284	0.222008	0.412598	0.55475	0.699542	no
yhcT	0.603063	0.703462	0.222163	0.296718	0.67965	0.796302	no
oppF	11.8428	13.8161	0.222342	0.804742	0.25305	0.416377	no
rnz	2.80804	3.27686	0.222751	0.550226	0.43735	0.59929	no
yodN	0.417877	0.48768	0.222856	0	1	1	no
yrrK	25.4124	29.6668	0.223315	0.721232	0.30835	0.478346	no
yycR	0.746968	0.87248	0.224075	0.38544	0.58665	0.726502	no
trpP	17.2037	20.0951	0.224126	0.726252	0.3104	0.47949	no
metK	24.9411	29.133	0.224129	0.897498	0.19655	0.357055	no
rtbJ	10.6692	12.4645	0.224374	0.693604	0.32985	0.498244	no
ydgG	1.47369	1.72232	0.224922	0.172784	0.81135	0.888701	no
yvdT	5.21545	6.10682	0.22763	0.562423	0.424	0.586594	no
yxek	2.43822	2.85511	0.227718	0.614178	0.37735	0.5411	no
yugJ	9.91252	11.6119	0.228281	0.846822	0.2247	0.390246	no
yutD	29.6007	34.6885	0.228823	0.598659	0.39255	0.553618	no
ykgA	2.60783	3.05848	0.229967	0.53903	0.44385	0.60514	no
queA	10.6315	12.4778	0.231024	0.840493	0.2397	0.404278	no
yoZQ	3.07413	3.60934	0.231554	0.260291	0.7168	0.825047	no
mutSB	5.35643	6.28926	0.231618	0.886224	0.20205	0.363593	no
yqeK	12.3895	14.5506	0.231967	0.519978	0.4591	0.616647	no
deoD	12.7927	15.0269	0.232225	0.785607	0.26475	0.429151	no
yoaH	2.45929	2.89096	0.233309	0.681679	0.33355	0.501197	no
ylbG	17.6596	20.766	0.23377	0.497741	0.4793	0.63527	no
mtnX	28.0342	32.9755	0.234206	0.472463	0.50125	0.653515	no
scpA	7.02925	8.26894	0.234332	0.594092	0.3972	0.558203	no
pbpA	7.74873	9.11612	0.23446	0.918405	0.1896	0.348936	no
polX	4.31824	5.08135	0.234767	0.797447	0.2512	0.414751	no
cgeE	2.55941	3.01422	0.235975	0.525409	0.457	0.614778	no
gudB	33.9128	39.9441	0.236152	0.954873	0.1764	0.332834	no
ypwA	13.2402	15.5959	0.23624	0.934926	0.1873	0.346056	no
ltaSP	1.72993	2.03813	0.236536	0.649953	0.35585	0.520668	no
bdhA	35.3895	41.6999	0.236725	0.951155	0.17425	0.330615	no
rpmB	192.452	226.797	0.236904	0.732484	0.3035	0.473337	no
trxB	9.24138	10.894	0.237354	0.821404	0.24645	0.410607	no
capC	1.3868	1.63515	0.23766	0.284807	0.68895	0.801955	no
ylxP	193.979	228.737	0.237789	0.408281	0.5651	0.708557	no
rsfS	44.7887	52.8249	0.238082	0.463307	0.51435	0.665086	no
yugK	2.63436	3.10843	0.238732	0.637556	0.3659	0.531209	no
ywmD	0.947553	1.11845	0.239219	0.323078	0.64305	0.767564	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ybgA	1.78865	2.11271	0.240217	0.448945	0.53185	0.681513	no
fbpC	68.6276	81.0734	0.240439	0.163172	0.8318	0.902627	no
yrhG	0.900694	1.06431	0.240805	0.356958	0.6152	0.749174	no
trnSL-Glu2	587.007	693.67	0.240873	0.338432	0.6282	0.756189	no
sufB	51.208	60.5332	0.241358	0.977464	0.16545	0.320361	no
mrnC	11.6032	13.7227	0.242041	0.475082	0.4979	0.650738	no
yrdC	6.85266	8.10498	0.242144	0.639326	0.36135	0.526108	no
comN	82.3741	97.4733	0.242816	0.873736	0.2138	0.378534	no
yclP	22.1068	26.1606	0.242906	0.514145	0.462	0.619941	no
prpC	13.0995	15.5021	0.242953	0.5653	0.41915	0.581384	no
mtnN	9.10777	10.7785	0.242989	0.747118	0.28565	0.45388	no
lysA	21.3733	25.2945	0.243017	0.973754	0.1665	0.321797	no
secA	21.067	24.9388	0.243402	0.987325	0.16335	0.318013	no
rnr	5.86335	6.94163	0.24355	0.941096	0.1831	0.340825	no
yppD	0.604542	0.715809	0.243731	0	1	1	no
ybdO	26.5486	31.4372	0.243837	0.978605	0.1596	0.313193	no
ptsH	745.899	883.309	0.243939	0.453916	0.51955	0.669196	no
rpsG	397.694	471.181	0.244621	0.964247	0.16985	0.325575	no
ytwF	12.916	15.3079	0.245118	0.544617	0.4388	0.600176	no
nadA	49.2287	58.3479	0.245181	0.527936	0.4554	0.61429	no
bslA	47.0771	55.8152	0.245632	0.967602	0.16795	0.323761	no
yqfF	6.97223	8.27259	0.24672	0.958477	0.1725	0.328463	no
ytpB	7.33101	8.69999	0.247002	0.719579	0.30025	0.470274	no
pepA	11.0038	13.0638	0.247571	0.965478	0.17195	0.328084	no
ctc	50.882	60.4096	0.247622	0.984331	0.16185	0.316014	no
plsY	12.6548	15.0297	0.248127	0.777033	0.278	0.444181	no
nhaK	3.26893	3.88298	0.248343	0.822734	0.25125	0.414751	no
grpE	67.216	79.8556	0.248587	0.995748	0.1531	0.303598	no
gapA	139.075	165.254	0.248818	0.975858	0.16415	0.31874	no
tgt	11.9265	14.1719	0.248867	0.950342	0.17275	0.328699	no
rok	20.7822	24.696	0.248927	0.885181	0.21045	0.374557	no
ydbA	1.57957	1.87729	0.249119	0.477906	0.5055	0.656306	no
yflP	3.30599	3.9296	0.249299	0.659788	0.34295	0.510189	no
dhbC	11.4288	13.5849	0.249335	0.947823	0.1786	0.335722	no
hisJ	6.10566	7.2605	0.249921	0.615065	0.38315	0.546479	no
ywiE	4.65093	5.53196	0.250273	0.836978	0.23435	0.400486	no
yqjU	27.8545	33.1364	0.250509	0.243852	0.72175	0.828725	no
yofF	14.195	16.8887	0.250678	0.560456	0.42245	0.584666	no
ppnKB	5.71691	6.80366	0.251076	0.724466	0.3088	0.478845	no
gcvT	18.044	21.475	0.251141	0.98949	0.15985	0.313256	no
spo0A	13.5081	16.0791	0.251362	0.904096	0.1937	0.354026	no
ykoH	0.845343	1.00639	0.251576	0.434781	0.5361	0.684843	no
dapA	26.9344	32.0818	0.252305	1.00061	0.1516	0.301745	no
lpdV	5.78352	6.88911	0.25237	0.877668	0.2113	0.375354	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
nth	9.3965	11.194	0.252531	0.574797	0.40625	0.568994	no
tuaH	0.539393	0.642582	0.252545	0.372745	0.59425	0.733046	no
dck	8.21197	9.78599	0.25299	0.638688	0.36995	0.534667	no
ctaF	32.8055	39.1006	0.253251	0.771434	0.27745	0.443842	no
yfID	2.73001	3.25432	0.253451	0	1	1	no
yitK	9.65114	11.5074	0.253791	0.694248	0.3227	0.491801	no
yojK	1.56711	1.86871	0.25394	0.581865	0.41135	0.573555	no
yozZ	2.52588	3.01209	0.253978	0	1	1	no
cotM	0.410142	0.489209	0.254326	0	1	1	no
yfjE	3.81126	4.54624	0.254404	0.48603	0.48725	0.640856	no
yqgC	30.1135	35.9217	0.254446	0.923068	0.1897	0.348936	no
gerKA	0.109279	0.130377	0.254676	0	1	1	no
argS	8.78579	10.4821	0.254683	0.90989	0.1963	0.357031	no
mtrB	85.975	102.584	0.254813	0.758323	0.2859	0.454084	no
ctaG	6.73354	8.03509	0.25495	0.790127	0.2637	0.42867	no
yhfE	8.80976	10.513	0.254993	0.893712	0.20105	0.362407	no
ytpQ	20.3805	24.3272	0.255377	0.985305	0.1655	0.320361	no
trnB-Ser1	1677.3	2002.31	0.255521	0.713474	0.3095	0.47949	no
ydjC	1.86176	2.2225	0.255522	0.272273	0.7008	0.811155	no
ymaC	0.902921	1.0781	0.255821	0.352251	0.6198	0.750676	no
thrC	43.5601	52.0187	0.256024	0.400299	0.5724	0.715308	no
rsmE	12.1813	14.5513	0.256476	0.539209	0.4413	0.602712	no
galE	23.1884	27.7024	0.256608	1.01989	0.146	0.293414	no
clpQ	27.2769	32.5995	0.257169	0.952446	0.1728	0.328699	no
yvkN	13.5309	16.1761	0.257598	0.408946	0.5486	0.695104	no
htrC	3.42455	4.09531	0.258057	0.743485	0.29365	0.46324	no
rpoC	53.0326	63.4212	0.258085	0.944331	0.17925	0.336285	no
yprA	2.74619	3.28459	0.258281	0.84317	0.23315	0.39935	no
ykuP	31.8954	38.1575	0.258619	0.928657	0.1909	0.350453	no
yteV	1.0021	1.19884	0.258622	0	1	1	no
proG	3.44122	4.11743	0.258823	0.653757	0.35035	0.517169	no
yszA	0.849476	1.01666	0.259199	0	1	1	no
yrzP	0.80571	0.9644	0.25937	0	1	1	no
ydeO	12.9031	15.4449	0.259409	0.945422	0.1747	0.331132	no
ftsA	24.762	29.6448	0.259651	1.04417	0.1336	0.277146	no
tlpB	5.87845	7.03763	0.259654	0.981891	0.1599	0.313256	no
yqaP	24.3348	29.1372	0.259839	1.02905	0.1449	0.292147	no
clpX	37.1345	44.4756	0.260255	1.05613	0.1307	0.272645	no
yheE	1.09397	1.31042	0.260457	0	1	1	no
yvzC	0.442147	0.529808	0.260942	0	1	1	no
ydeP	3.22209	3.86127	0.261079	0.403029	0.5637	0.707577	no
ycsG	6.5962	7.90508	0.261144	0.895836	0.2035	0.365322	no
yodI	0.35156	0.421391	0.26139	0	1	1	no
hemL	11.0209	13.2114	0.261538	1.00521	0.1503	0.300278	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yImD	30.0242	35.9935	0.261613	1.04023	0.13625	0.280719	no
ytzC	0.277744	0.333003	0.261779	0	1	1	no
yobR	7.81112	9.36738	0.262115	0.794966	0.2651	0.42945	no
yvoD	11.1451	13.3661	0.262166	0.808015	0.24375	0.408145	no
yhdP	13.8528	16.615	0.262301	1.03117	0.14305	0.290298	no
-	16.7064	20.0449	0.262835	0.260763	0.73815	0.841604	no
ycsE	7.01891	8.42212	0.262937	0.777907	0.2711	0.435955	no
gerT	0.080025	0.096025	0.26296	0	1	1	no
ycdB	1.80151	2.1617	0.262961	0.67043	0.33795	0.506993	no
miaA	3.80017	4.56012	0.263006	0.712627	0.31125	0.48045	no
mapB	7.94788	9.53787	0.263096	0.805546	0.2559	0.419276	no
ycgl	0.055088	0.06611	0.263118	0	1	1	no
yvbT	1.59178	1.91052	0.263321	0.561974	0.42525	0.587235	no
yuzD	12.1727	14.6115	0.263453	0.597119	0.40025	0.561714	no
accA	34.3222	41.1989	0.263466	0.808319	0.24425	0.408683	no
yczH	5.02533	6.03367	0.263817	0.660278	0.35045	0.517169	no
sigX	9.56016	11.4798	0.263996	0.565553	0.4278	0.589231	no
yloA	3.75635	4.51238	0.264556	0.87064	0.22055	0.385911	no
yunF	4.17597	5.02233	0.266245	0.721016	0.30905	0.479034	no
ymaB	5.10981	6.14614	0.266411	0.673971	0.33825	0.507239	no
purR	23.1732	27.8767	0.266601	0.698446	0.3225	0.491801	no
kdgK	3.12363	3.75899	0.267122	0.696712	0.32125	0.490813	no
priA	3.69214	4.44457	0.267589	0.850879	0.22245	0.387963	no
ykwC	45.2414	54.4618	0.267601	1.07762	0.1265	0.267318	no
nfsB	2.44766	2.94654	0.267616	0.534123	0.4564	0.614568	no
ripX	6.64289	7.99837	0.267896	0.830754	0.2443	0.408683	no
ybaS	6.24461	7.52307	0.26871	0.832142	0.24545	0.409339	no
bacE	14.374	17.3173	0.268749	0.709066	0.31175	0.481023	no
lipA	15.6187	18.8217	0.269121	1.02269	0.14585	0.293414	no
yxiO	1.5797	1.90436	0.269651	0.633899	0.36655	0.531533	no
gyrB	15.8674	19.1308	0.269834	1.08403	0.122	0.26076	no
ykuO	10.883	13.1258	0.270324	0.782124	0.2693	0.434182	no
recD	3.65413	4.40764	0.270478	0.970958	0.16955	0.325501	no
yneT	19.1036	23.0533	0.271124	0.808736	0.2546	0.417329	no
ccpN	11.9294	14.3986	0.271405	0.871481	0.21795	0.383518	no
yfhS	27.5317	33.2339	0.271561	0.561678	0.4246	0.586841	no
ahrC	7.46039	9.00663	0.271737	0.656599	0.3543	0.519507	no
yweA	109.54	132.299	0.27235	1.09591	0.11655	0.251559	no
pgl	14.5493	17.5881	0.273649	1.0544	0.1357	0.279947	no
rplS	1044.68	1262.97	0.273758	1.03095	0.1422	0.289202	no
msrB	7.76082	9.38347	0.273912	0.656856	0.35425	0.519507	no
ycxD	0.541375	0.654764	0.274346	0.413965	0.55095	0.697136	no
natR	1.28798	1.55823	0.274803	0.441488	0.5256	0.674894	no
yfmK	6.89412	8.34293	0.275187	0.643002	0.36005	0.525167	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yfhD	10.8619	13.1621	0.277105	0.297464	0.6745	0.792755	no
yjIA	2.78593	3.37686	0.277528	0.702119	0.31685	0.48588	no
metP	41.399	50.1883	0.277756	0.74261	0.29255	0.46209	no
ysfE	8.4821	10.2844	0.277962	0.391934	0.57375	0.716401	no
mgsR	40.5324	49.1497	0.278108	0.975339	0.16525	0.320209	no
menD	3.92931	4.76486	0.278159	0.6038	0.3915	0.55248	no
ydiK	10.0125	12.1454	0.278614	0.207889	0.77885	0.867609	no
yvsG	1.76591	2.14241	0.278829	0.398946	0.55505	0.699542	no
yqgT	3.32478	4.03722	0.280104	0.7877	0.2631	0.428254	no
glcK	5.22181	6.34077	0.280108	0.839965	0.24015	0.404278	no
guaB	30.3299	36.8428	0.280642	1.13721	0.1054	0.234543	no
gltX	38.0925	46.2783	0.280832	1.1373	0.1007	0.227474	no
ampS	11.654	14.1644	0.281444	1.08413	0.12525	0.265578	no
fliE	28.9035	35.1456	0.2821	0.816235	0.25125	0.414751	no
yrdF	2.58419	3.1427	0.282293	0.266338	0.7127	0.821618	no
pelC	2.58835	3.14792	0.282367	0.586661	0.4042	0.56676	no
argD	22.1611	26.955	0.282527	0.846872	0.23215	0.398002	no
yral	11.4021	13.8707	0.282735	0.675832	0.34175	0.509574	no
trxA	65.2116	79.428	0.284519	1.00582	0.1516	0.301745	no
ccpA	19.4824	23.7392	0.285098	1.12225	0.11035	0.241387	no
ydzN	7.19516	8.76825	0.285262	0.236494	0.72765	0.832855	no
ywjH	92.0698	112.207	0.285367	1.15682	0.10375	0.231812	no
yqfL	8.75164	10.6679	0.285655	0.926258	0.18785	0.346557	no
flhP	14.0689	17.1499	0.285695	1.04101	0.14065	0.287246	no
htpG	16.4848	20.1057	0.286466	1.15214	0.10035	0.22682	no
pksH	4.81018	5.86922	0.287078	0.588079	0.40745	0.56982	no
yqxl	85.6172	104.49	0.287395	1.15105	0.10275	0.230709	no
norM	3.09433	3.78172	0.289416	0.843237	0.23995	0.404278	no
yxkF	1.47119	1.79881	0.290062	0.566218	0.4132	0.575061	no
smc	5.23523	6.40651	0.291284	1.15415	0.1043	0.232511	no
ftsZ	31.201	38.1842	0.291384	1.17229	0.0961	0.220552	no
prfB	27.4653	33.6299	0.292136	1.17086	0.09775	0.222696	no
argF	44.7054	54.7548	0.292537	0.592352	0.39785	0.558906	no
rtbE	7.10596	8.7078	0.293279	0.473421	0.4999	0.652406	no
cysS	7.02761	8.61381	0.293618	0.818573	0.2444	0.408683	no
ypoC	8.09612	9.92608	0.293995	0.449203	0.5022	0.653678	no
ypjD	6.37701	7.81869	0.294047	0.54002	0.446	0.60669	no
yprB	3.8608	4.73438	0.294277	0.880428	0.21495	0.38021	no
ypjC	0.849399	1.0422	0.29512	0.454489	0.51075	0.661872	no
galT	2.69766	3.31035	0.295277	0.86479	0.22575	0.391342	no
ppaC	33.4843	41.1022	0.295728	1.18512	0.089	0.208865	no
ycxA	20.1299	24.7178	0.296214	1.18235	0.0906	0.211968	no
dnaG	17.0699	20.9656	0.296571	1.12072	0.1093	0.239933	no
glpW	6.34307	7.79147	0.296714	0.821107	0.2437	0.408145	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
mtnB	48.1416	59.1557	0.297234	0.733385	0.2936	0.46324	no
gcvPA	13.2821	16.3222	0.297351	0.85557	0.21975	0.385047	no
nagBA	4.57409	5.624	0.298113	0.620106	0.3762	0.540281	no
ftsW	11.0479	13.5843	0.298165	1.13755	0.10495	0.233681	no
yjoA	12.1159	14.9004	0.298449	0.848471	0.2341	0.400426	no
hepS	24.8576	30.5732	0.29858	1.16489	0.09775	0.222696	no
ydaF	10.184	12.5259	0.298617	0.868156	0.2235	0.389321	no
gtaB	29.0092	35.6855	0.298828	1.18894	0.091	0.212488	no
ywtE	6.6681	8.20396	0.299044	0.918876	0.1965	0.357055	no
yfkE	1.42126	1.74868	0.299096	0.624517	0.37665	0.540719	no
ybaK	0.521654	0.641835	0.299111	0.215895	0.7667	0.860492	no
maeN	17.2105	21.1767	0.29919	1.19007	0.09195	0.214303	no
yodM	2.09094	2.57418	0.299967	0.544745	0.44535	0.606248	no
rlmN	9.38504	11.5618	0.300931	1.08961	0.12165	0.260161	no
ylbJ	0.772424	0.951621	0.300994	0.536279	0.4474	0.608151	no
yqjT	12.5596	15.483	0.301894	0.761483	0.27685	0.443102	no
cinA	10.2555	12.6431	0.301947	1.14786	0.10245	0.230451	no
cimH	2.29033	2.82393	0.302147	0.818193	0.2472	0.411288	no
nadB	46.7842	57.6954	0.302433	0.791951	0.2583	0.422467	no
yknZ	45.2085	55.7819	0.303205	1.03954	0.13555	0.279947	no
flhO	12.3264	15.215	0.303746	1.07784	0.1229	0.262383	no
yyaT	1.56365	1.9301	0.303761	0.317342	0.65545	0.777956	no
leuS	15.0755	18.6088	0.303784	1.2261	0.08325	0.199522	no
odhA	66.3347	81.8947	0.304006	1.11593	0.1124	0.244867	no
qoxA	79.4433	98.0939	0.304238	1.23054	0.08055	0.194298	no
ywcJ	0.680563	0.840375	0.304304	0.389842	0.57725	0.719203	no
ynzF	2.39062	2.95245	0.304529	0.372787	0.6034	0.739935	no
phrK	512.474	632.942	0.304593	0.490695	0.4932	0.646179	no
dnaD	11.9157	14.7195	0.304868	1.01664	0.15195	0.301959	no
nagP	8.72659	10.7847	0.305501	1.14692	0.10255	0.230537	no
bst	11.1341	13.7639	0.305905	0.766116	0.2816	0.448973	no
argB	29.2614	36.178	0.306112	0.815742	0.24015	0.404278	no
trnI-Asn	2229.37	2756.56	0.306236	0.687742	0.32935	0.497993	no
ktrD	2.68663	3.322	0.306255	0.862259	0.2187	0.383933	no
yqjE	19.5671	24.1956	0.306315	1.21343	0.08045	0.194298	no
ytl	3.84582	4.75737	0.306873	0.894158	0.2076	0.370544	no
trnD-Asn	2129.9	2636.32	0.307736	0.716653	0.30985	0.47949	no
cyeA	0.488417	0.604766	0.308263	0.363466	0.60455	0.740613	no
ytmA	1.16382	1.44125	0.308455	0.512037	0.46705	0.624182	no
skfB	87.2282	108.024	0.30848	0.921318	0.18785	0.346557	no
yitY	4.26158	5.2782	0.308657	0.995672	0.1625	0.316815	no
gpsB	37.3393	46.2582	0.309013	0.912619	0.19865	0.359728	no
pncA	31.5962	39.1673	0.309899	1.1708	0.0963	0.220875	no
proS	21.7524	26.9648	0.309901	1.25171	0.07375	0.183222	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
fadN	0.545724	0.676696	0.310338	0.646014	0.37045	0.534976	no
yjcM	27.2185	33.7514	0.310364	1.24566	0.075	0.185341	no
etfB	4.89108	6.06774	0.311005	0.854772	0.22995	0.395663	no
ywqL	7.35903	9.13273	0.311531	0.924852	0.1939	0.354218	no
ylal	22.5748	28.0187	0.311676	0.546257	0.44055	0.602128	no
thrS	12.5943	15.6372	0.312206	1.24849	0.07425	0.184097	no
ftsX	10.8799	13.5138	0.31277	0.742472	0.29455	0.464072	no
yclQ	35.1923	43.7123	0.31278	1.25644	0.07495	0.18534	no
araM	0.19914	0.247359	0.312824	0	1	1	no
aroQ	32.9612	40.9467	0.31298	0.583261	0.40525	0.567806	no
ytbQ	23.2703	28.9083	0.31299	1.21589	0.0884	0.207993	no
pbpB	5.25139	6.52522	0.313329	1.10083	0.1116	0.24355	no
parC	7.56444	9.39963	0.31337	1.23953	0.07985	0.193485	no
pycA	21.2437	26.4085	0.313967	1.2679	0.07215	0.180568	no
asd	51.9098	64.5682	0.314817	1.27683	0.06835	0.173855	no
yxEM	4.78384	5.95232	0.315283	0.869502	0.21985	0.385047	no
uppP	7.1246	8.86842	0.315869	0.975223	0.17535	0.332027	no
yxB	12.2258	15.2216	0.31619	1.00253	0.1597	0.313193	no
ribC	11.2279	13.9794	0.316212	1.14993	0.10275	0.230709	no
feuC	2.7641	3.44232	0.316573	0.705174	0.31315	0.482186	no
rapC	33.3738	41.5628	0.316579	1.13337	0.10485	0.233598	no
serA	77.054	95.9887	0.316995	1.24662	0.0756	0.186085	no
yvaG	1.78293	2.22202	0.317618	0.63249	0.3732	0.537356	no
rpmF	1041.57	1298.18	0.31773	1.25865	0.0716	0.179553	no
yetH	8.82016	10.9945	0.317907	0.703206	0.3162	0.485159	no
fhuC	7.106	8.85844	0.318015	0.973812	0.16915	0.325235	no
ydjN	3.48549	4.34596	0.318313	0.885424	0.20825	0.371172	no
yyaK	14.3984	17.9692	0.319613	0.995527	0.15855	0.31258	no
lmrA	4.49509	5.60989	0.319622	0.745283	0.30005	0.470158	no
yxBG	1.22105	1.5247	0.320409	0.556873	0.43815	0.599794	no
araP	0.258685	0.323066	0.32063	0	1	1	no
yusV	31.999	39.9725	0.320982	1.27575	0.06985	0.176349	no
ftsE	24.2418	30.2951	0.321587	0.98016	0.1639	0.31842	no
skfA	3585.53	4482.16	0.322006	1.28988	0.0698	0.176342	no
yurR	3.9566	4.94709	0.322319	0.944429	0.186	0.344506	no
yetM	0.479111	0.599152	0.322563	0.443693	0.52365	0.672917	no
kinC	5.95397	7.44633	0.322678	1.09789	0.1244	0.26498	no
yfIL	4.95217	6.20006	0.324221	0.255925	0.71955	0.826708	no
yfIB	2.82536	3.5397	0.325193	0.488395	0.4847	0.638627	no
yybE	1.76728	2.21413	0.325205	0.680351	0.3403	0.508829	no
walR	4.22225	5.28987	0.32522	0.831585	0.23585	0.40158	no
epsB	7.14088	8.94857	0.325555	0.943722	0.1761	0.332604	no
ysoA	16.7356	20.993	0.326989	1.27418	0.07375	0.183222	no
spolIAA	4.30844	5.40461	0.327023	0.469052	0.50195	0.653678	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
menC	1.81341	2.27571	0.327612	0.475394	0.4924	0.64581	no
albA	9.14474	11.4774	0.327779	1.24183	0.0772	0.188655	no
metQ	57.9161	72.69	0.327793	1.3257	0.06005	0.157463	no
yqaE	3.57804	4.49115	0.327916	0.482582	0.4951	0.647663	no
kipl	4.1925	5.26405	0.328363	0.844531	0.22945	0.39537	no
qcrA	35.6999	44.8271	0.328448	1.25009	0.0745	0.184594	no
ynaG	13.5083	16.9701	0.329151	0.663401	0.35175	0.517916	no
yykC	1.29313	1.62456	0.329178	0.915419	0.1881	0.346847	no
fusA	372.161	467.618	0.329403	1.29898	0.0657	0.168956	no
ykuV	8.54693	10.7444	0.330109	0.833167	0.2392	0.404278	no
mrpD	7.77908	9.7795	0.330162	0.738829	0.29095	0.460733	no
sigZ	0.714367	0.898105	0.330218	0.326467	0.6291	0.757028	no
ytaF	10.6417	13.3809	0.330449	1.03225	0.14845	0.297537	no
mrpA	8.06395	10.1474	0.331553	0.98805	0.159	0.312971	no
fbpB	36.255	45.6259	0.331671	0.462664	0.5006	0.652896	no
yxep	3.962	4.98724	0.332011	0.778507	0.27225	0.437239	no
pepT	13.249	16.6788	0.332131	1.2956	0.06635	0.170276	no
ftsH	37.8781	47.6865	0.332217	1.34284	0.05435	0.146212	no
iolB	0.758214	0.955534	0.333702	0.474233	0.5	0.652406	no
rpIT	113.992	143.707	0.334199	1.32627	0.0597	0.156986	no
yvaK	8.58922	10.829	0.334296	1.04656	0.1407	0.287246	no
spoIVCA	0.605192	0.763473	0.335183	0.543011	0.44945	0.609828	no
pgk	74.1403	93.5518	0.335507	1.35102	0.05675	0.151037	no
mrpB	10.4297	13.1666	0.336193	0.358145	0.61035	0.745517	no
yjaZ	0.253311	0.319976	0.337057	0	1	1	no
lysS	18.7674	23.7189	0.337803	1.35409	0.053	0.144138	no
estB	6.99684	8.84425	0.338036	0.946457	0.1808	0.337554	no
guaC	4.07131	5.14634	0.338054	0.961746	0.1771	0.333817	no
yfkL	2.06296	2.61019	0.339437	0.847758	0.23005	0.395663	no
albD	2.85565	3.61354	0.339595	0.687573	0.32705	0.495016	no
dsdA	3.19897	4.04813	0.339649	1.00006	0.1519	0.301959	no
truA	27.7283	35.0911	0.339747	1.33522	0.0582	0.154127	no
luxS	41.3848	52.3879	0.340131	1.29775	0.0671	0.171493	no
yerI	33.8198	42.8259	0.340614	1.37	0.0525	0.143405	no
yvcP	3.34839	4.24016	0.340648	0.545578	0.4473	0.608151	no
xseB	15.6617	19.8367	0.340931	0.326257	0.65205	0.775578	no
deoR	2.08124	2.63643	0.341143	0.782371	0.2736	0.438653	no
salA	17.6555	22.3679	0.341316	1.34215	0.05665	0.150878	no
yflA	7.86528	9.96497	0.341368	1.17913	0.096	0.220458	no
yvfT	2.36082	2.99261	0.342121	0.870639	0.2176	0.383263	no
mdh	305.978	388.188	0.343327	1.2264	0.0813	0.195596	no
pssA	11.7985	14.9685	0.343333	0.707016	0.31585	0.484944	no
yybR	5.46066	6.92802	0.343367	0.660289	0.35195	0.518006	no
rsbU	9.80753	12.4518	0.344394	1.2377	0.0773	0.188776	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yitF	0.228459	0.290113	0.344678	0	1	1	no
recJ	7.46648	9.48151	0.34469	1.35741	0.05425	0.146049	no
spoVG	400.551	508.809	0.345135	1.39726	0.04805	0.13644	no
yvdC	11.05	14.0448	0.345991	0.749424	0.289	0.458033	no
besA	10.4601	13.295	0.345996	1.2094	0.08955	0.209906	no
yockK	5.86864	7.45985	0.346121	0.821935	0.2452	0.409105	no
leuA	83.295	105.898	0.346378	0.861723	0.21715	0.382832	no
eno	132.678	168.732	0.346801	1.31102	0.05905	0.155605	no
flgD	35.8735	45.6375	0.347299	0.806425	0.2515	0.414797	no
ansB	1.8557	2.36096	0.347408	0.903081	0.2003	0.361489	no
comQ	9.18754	11.6981	0.34852	1.13103	0.1099	0.240903	no
yjgC	0.744933	0.948501	0.348539	0.837548	0.23005	0.395663	no
tatCY	14.1583	18.0304	0.348784	1.25581	0.0751	0.185465	no
rbfA	25.0213	31.8689	0.348991	1.03927	0.1438	0.291503	no
yheN	20.0056	25.4808	0.349007	1.35607	0.0514	0.141435	no
ywjC	22.7093	28.9329	0.34943	0.84109	0.23785	0.403275	no
glT	32.7542	41.7426	0.349838	1.41459	0.04575	0.132222	no
nupP	3.74807	4.77838	0.350372	0.779444	0.2673	0.43189	no
spoVT	7.48334	9.54264	0.350705	0.929506	0.19465	0.355159	no
obg	21.5504	27.4824	0.350789	1.40425	0.0445	0.130018	no
yqkF	5.47005	6.97854	0.351371	1.05196	0.1403	0.286846	no
tcyP	4.02108	5.13149	0.351794	1.10701	0.12215	0.260931	no
yqaR	4.30334	5.49304	0.352147	0.717496	0.3105	0.47949	no
atpB	184.65	235.749	0.352458	1.39405	0.0475	0.136016	no
yisQ	0.776	0.990844	0.352601	0.667608	0.3481	0.515182	no
qdoR	2.09449	2.67495	0.35291	0.626463	0.3817	0.544827	no
rseP	21.4166	27.3599	0.353334	1.41421	0.0458	0.132264	no
sigE	0.3444	0.440327	0.354491	0	1	1	no
ynbB	4.21118	5.38807	0.355543	1.10506	0.12405	0.264643	no
yukE	356.399	456.084	0.355806	1.43853	0.03855	0.117501	no
prmA	12.5718	16.0901	0.355982	1.32132	0.0611	0.159321	no
menE	3.01979	3.866	0.356393	0.876875	0.20515	0.367224	no
ytmB	5.49667	7.0385	0.356711	0.41717	0.561	0.705311	no
tyrS	15.664	20.0624	0.357045	1.41225	0.04435	0.129681	no
psd	7.18276	9.20101	0.357254	0.748203	0.29145	0.460901	no
rsbRB	14.6841	18.8135	0.35751	1.32708	0.0578	0.153394	no
yycA	1.72725	2.21377	0.358026	1.02227	0.14945	0.29874	no
yqgA	504.947	647.239	0.358165	1.39643	0.04595	0.132492	no
yvrB	3.24765	4.16465	0.3588	0.64806	0.35495	0.519758	no
cheR	4.11397	5.27624	0.35898	0.941473	0.17865	0.335722	no
yIbK	2.64354	3.39122	0.359333	0.822225	0.24335	0.408092	no
safA	29.1722	37.4343	0.359766	1.44692	0.03905	0.118067	no
plsC	19.2879	24.7528	0.359902	1.28643	0.0658	0.169096	no
yjqB	1.6821	2.15893	0.36005	0.598868	0.3972	0.558203	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yknY	35.4396	45.4898	0.360181	0.77664	0.26975	0.43472	no
rsmB	8.19743	10.5248	0.360544	1.05999	0.13705	0.281798	no
rpmD	1902.57	2443.23	0.36084	1.46467	0.0383	0.117127	no
yqxJ	23.1434	29.7221	0.360935	1.06834	0.12925	0.27083	no
ywpG	2.43832	3.13202	0.361206	0.493529	0.48005	0.635641	no
yubA	11.0222	14.161	0.361512	1.37522	0.0501	0.139607	no
ylmA	9.47963	12.1806	0.361686	1.19079	0.0939	0.217489	no
ynaF	3.99474	5.13441	0.362097	0.575771	0.4193	0.581384	no
yitW	29.0938	37.4024	0.362417	1.02989	0.14635	0.29396	no
rpoB	38.707	49.768	0.362625	1.38865	0.0478	0.136144	no
yvfH	14.2993	18.3866	0.362703	1.44415	0.0414	0.123473	no
cotC	1.8876	2.42803	0.363234	0.155746	0.76775	0.860636	no
yczC	62.6985	80.6645	0.363502	1.39273	0.04585	0.132306	no
secG	142.494	183.378	0.36392	1.26122	0.0741	0.183847	no
cotW	0.478989	0.616558	0.364244	0.1562	0.76775	0.860636	no
bceS	3.25069	4.18492	0.364455	0.855732	0.21595	0.381256	no
icd	156.647	201.714	0.364789	1.34471	0.0551	0.147804	no
frr	32.115	41.3598	0.364983	1.40013	0.04505	0.130806	no
yqgU	8.47826	10.9223	0.365434	1.2906	0.06325	0.164353	no
mraW	16.051	20.6814	0.36567	1.40604	0.0451	0.13085	no
ymfH	10.3321	13.3225	0.366724	1.02806	0.14565	0.293184	no
ytoP	7.59325	9.79188	0.366868	1.26733	0.07535	0.18596	no
yrpD	20.8791	26.9321	0.367271	1.38876	0.0481	0.136478	no
dapL	11.7973	15.2222	0.367725	1.40335	0.0476	0.136144	no
yplQ	5.00427	6.4584	0.368017	0.951652	0.1799	0.336884	no
bkdR	2.37071	3.0613	0.368825	1.14837	0.1029	0.23088	no
uup	2.23675	2.88982	0.369576	1.1018	0.12035	0.257824	no
pgi	31.5318	40.7514	0.370046	1.49714	0.03295	0.105248	no
atpF	138.007	178.377	0.370189	1.11545	0.10705	0.237055	no
yueF	4.12515	5.33189	0.3702	1.09173	0.1295	0.271155	no
bkdAA	8.31605	10.7495	0.370306	1.27191	0.06885	0.174769	no
yqkB	27.0145	34.9226	0.370426	0.645977	0.3545	0.519507	no
ycnI	13.5292	17.4949	0.370859	1.22324	0.08605	0.204125	no
dhbA	14.2673	18.4524	0.371093	1.35211	0.05055	0.140233	no
nhaC	3.13134	4.05027	0.37124	1.09768	0.1241	0.264643	no
splB	2.89856	3.75116	0.371998	0.986622	0.1647	0.319475	no
sspE	24.1361	31.243	0.372338	0.850513	0.22825	0.393847	no
epsM	4.41934	5.72306	0.372954	0.487031	0.49265	0.645881	no
yoeC	1.49292	1.93367	0.373208	0.553443	0.42655	0.587943	no
ezrA	16.5367	21.4189	0.373213	1.49694	0.0325	0.104616	no
ruvA	4.31939	5.59534	0.373396	0.891082	0.2063	0.368753	no
atpD	115.362	149.44	0.373398	1.41391	0.0441	0.129355	no
ywrO	16.1143	20.8764	0.373535	1.21069	0.08875	0.208554	no
yrzS	21.3509	27.6688	0.373961	0.377226	0.58835	0.727753	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yxjG	37.1755	48.178	0.374022	1.51244	0.03215	0.103938	no
rdgB	17.3632	22.5022	0.374036	1.30374	0.0666	0.170682	no
ylqD	12.3003	15.9436	0.374284	0.971032	0.16635	0.321673	no
ywcB	4.87494	6.31906	0.374327	0.371361	0.57205	0.71511	no
carB	21.4049	27.7476	0.374422	1.02789	0.1429	0.290151	no
yraA	12.1532	15.7561	0.374583	1.11008	0.11965	0.256471	no
bmrU	2.02445	2.62478	0.37467	0.82449	0.2446	0.408735	no
yxxB	1.16765	1.5144	0.375139	0.640313	0.35885	0.523621	no
purE	34.3368	44.538	0.37528	0.390353	0.5617	0.705479	no
vpr	2.29345	2.97516	0.375447	1.20594	0.09375	0.217295	no
ykuU	11.3337	14.7062	0.375805	1.12875	0.109	0.239415	no
yxxE	17.9561	23.2993	0.37581	0.930391	0.187	0.345672	no
ycgK	0.562811	0.730472	0.376179	0.519735	0.46325	0.620881	no
yufK	16.088	20.8922	0.376981	1.25211	0.07915	0.192163	no
rplGB	1038.78	1349.31	0.377336	1.51565	0.03005	0.098427	no
rpoE	55.7784	72.4532	0.377343	1.49014	0.03445	0.108189	no
trpS	10.6865	13.8829	0.377513	1.37971	0.04695	0.135063	no
ylaL	15.5721	20.2396	0.378223	1.17634	0.09985	0.226077	no
rph	13.4999	17.5498	0.378509	1.33688	0.059	0.155583	no
cspD	3151.64	4097.9	0.37878	1.50147	0.0314	0.102043	no
tasA	89.5079	116.418	0.379225	1.53666	0.0306	0.099878	no
argH	34.7494	45.2046	0.379481	1.12984	0.10825	0.238469	no
fadA	0.598497	0.778616	0.379567	0.598407	0.3889	0.551102	no
purK	42.8097	55.7097	0.379991	0.788615	0.2636	0.42867	no
tpiA	65.1259	84.7564	0.380091	0.941413	0.18425	0.342454	no
yrbF	153.431	199.683	0.380118	1.45765	0.03875	0.117501	no
ytiB	8.0669	10.5005	0.380371	0.900163	0.19885	0.359741	no
menH	27.0547	35.2287	0.380872	1.19797	0.08775	0.206855	no
yxeE	1.69545	2.20794	0.381029	0.411028	0.5482	0.694833	no
csaA	13.0958	17.0571	0.381266	0.914745	0.19745	0.35825	no
rttF	9.78893	12.7507	0.381359	1.12929	0.11035	0.241387	no
yusY	5.98084	7.79059	0.381385	1.30536	0.06495	0.167836	no
ytkL	9.86727	12.8544	0.381535	1.20527	0.0909	0.212403	no
glcF	1.07122	1.3956	0.381635	0.717341	0.30805	0.478079	no
yfjC	2.99037	3.89629	0.381777	0.908464	0.20065	0.361945	no
atpG	96.8868	126.297	0.382446	1.54509	0.02735	0.091674	no
walJ	6.55944	8.55205	0.382697	1.14863	0.1088	0.239257	no
cdsA	18.1765	23.6988	0.382744	1.46373	0.0371	0.1143	no
citH	0.124982	0.162962	0.382816	0	1	1	no
yplP	2.80537	3.65804	0.382878	0.987674	0.16255	0.316815	no
mtnA	22.2074	28.9705	0.383547	1.52628	0.0332	0.105685	no
bsuRC	8.9875	11.7333	0.384622	1.46633	0.03495	0.109299	no
yvrA	1.8489	2.41477	0.385218	0.577046	0.4093	0.571551	no
ytcl	9.41765	12.3011	0.385353	1.49492	0.03545	0.110125	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ytxE	2.56776	3.35557	0.386045	0.591429	0.38375	0.546988	no
yqxC	17.3154	22.6298	0.386169	0.819154	0.24	0.404278	no
rplO	550.056	718.972	0.386357	1.47484	0.0354	0.110061	no
thiD	44.3876	58.0204	0.386404	1.55413	0.0287	0.095005	no
yvbH	7.23879	9.46293	0.386539	1.08825	0.11885	0.255303	no
sspA	19.0712	24.9328	0.386651	0.647007	0.3614	0.526108	no
ypzH	3.37711	4.41554	0.386798	0.196037	0.7888	0.874755	no
ispG	9.9796	13.0513	0.387144	1.44213	0.03965	0.119014	no
etfA	2.33785	3.05754	0.387187	0.938925	0.1846	0.342763	no
appD	13.2455	17.325	0.387347	0.878625	0.21395	0.378621	no
brnQ	1.55611	2.03681	0.388366	0.844814	0.23015	0.395663	no
metS	13.5904	17.7976	0.389093	1.55982	0.02675	0.089824	no
opuBC	10.1898	13.3455	0.389223	1.38079	0.0496	0.138628	no
thiS	380.248	498.269	0.389983	0.28135	0.69395	0.805474	no
mmgD	0.094879	0.124348	0.390224	0	1	1	no
rnhC	2.58097	3.38272	0.390272	0.962577	0.1776	0.334591	no
pdhB	74.66	97.8861	0.39077	1.58208	0.02575	0.087093	no
lgt	19.0925	25.0345	0.390914	1.50323	0.0327	0.104859	no
rsbT	26.0733	34.2294	0.392661	1.27247	0.0735	0.182844	no
fumC	39.9827	52.5123	0.39328	1.59521	0.02415	0.082806	no
bsuRB	15.2214	19.9923	0.393344	1.52646	0.03115	0.101496	no
ytoQ	5.31292	6.98512	0.394779	0.852638	0.23435	0.400486	no
recQ	5.94291	7.81529	0.395129	1.24813	0.0763	0.187191	no
pdxK	6.78144	8.9263	0.39647	1.2062	0.09225	0.214752	no
tnrA	5.03418	6.62756	0.396722	0.667806	0.34425	0.511716	no
nrdE	9.53929	12.5598	0.39686	1.48653	0.03445	0.108189	no
yoaD	7.37435	9.71439	0.397608	1.35049	0.0585	0.154702	no
rnjA	30.1112	39.6669	0.397633	1.61176	0.0228	0.079122	no
yhfT	15.689	20.6697	0.397765	1.32798	0.0606	0.15846	no
ydeS	3.90009	5.13854	0.397851	0.916405	0.1976	0.358348	no
tdk	4.64497	6.11999	0.39786	0.963916	0.1755	0.332142	no
yunG	3.23404	4.26119	0.39792	0.556852	0.4262	0.587895	no
ysdC	12.9085	17.0084	0.397926	1.52645	0.03025	0.098985	no
ywqG	6.99583	9.21798	0.397955	1.20747	0.0927	0.21553	no
ypdQ	4.41908	5.82519	0.398561	0.622083	0.3747	0.538748	no
yqhY	49.8506	65.717	0.398655	1.50571	0.0341	0.107542	no
ywdF	7.14125	9.42024	0.399587	1.23286	0.0805	0.194298	no
yycB	15.7335	20.7584	0.399858	1.57629	0.02635	0.088801	no
metI	28.6177	37.7581	0.399879	1.25094	0.07335	0.182714	no
yjcN	118.199	156.001	0.400338	1.5644	0.028	0.09335	no
ypdA	6.72561	8.87968	0.400842	1.30065	0.0699	0.176356	no
qoxC	126.715	167.332	0.401122	1.62422	0.0208	0.073898	no
patB	3.88452	5.12965	0.401123	1.18949	0.0925	0.215199	no
bipA	14.3437	18.9467	0.40153	1.60805	0.0223	0.077748	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yheG	3.61427	4.77507	0.401818	0.916595	0.19825	0.359352	no
nosA	3.26033	4.30835	0.402118	1.06318	0.128	0.268966	no
fabL	13.0927	17.3188	0.403573	1.42705	0.04265	0.126193	no
fliK	11.0406	14.6073	0.403879	1.28477	0.0646	0.167511	no
sboA	28.1095	37.2107	0.404663	0.351471	0.6254	0.754456	no
yuiA	460.713	610.384	0.405849	1.25511	0.07755	0.189263	no
spoIVA	0.33042	0.437823	0.406049	0	1	1	no
sdpR	119.598	158.506	0.406352	0.698907	0.3202	0.48961	no
sufS	45.3551	60.1144	0.406446	0.857536	0.2162	0.381517	no
yabN	6.03447	7.99885	0.406566	1.24256	0.07795	0.18999	no
ytrC	3.95149	5.24002	0.407176	0.943912	0.1817	0.338895	no
rocA	2.97649	3.94875	0.407784	1.23783	0.0848	0.202199	no
oppB	13.6327	18.0929	0.408355	1.53992	0.02935	0.096558	no
plsX	58.7319	77.9538	0.408476	1.65345	0.0182	0.067286	no
yfmL	2.38354	3.16468	0.408956	1.06207	0.13655	0.281027	no
ywlE	9.10555	12.0918	0.409213	1.07324	0.12745	0.268473	no
yutH	0.776486	1.0312	0.40929	0.662062	0.34015	0.508829	no
ydzF	5.04452	6.6996	0.409357	0.68041	0.33295	0.500901	no
fadB	3.15542	4.19124	0.409543	0.997399	0.1589	0.312939	no
yteJ	43.3633	57.5992	0.409574	1.58855	0.02425	0.083073	no
ydgH	1.11398	1.4805	0.410353	1.07652	0.133	0.276362	no
rsh	12.7126	16.8971	0.410516	1.64817	0.02245	0.078052	no
yvrE	6.88276	9.14861	0.410565	1.29193	0.07005	0.176496	no
resA	19.5209	25.9654	0.411573	0.988771	0.16265	0.316815	no
ipi	2.82995	3.76466	0.411742	0.568205	0.4138	0.575682	no
xseA	6.82721	9.08371	0.411985	1.14748	0.10295	0.23088	no
yqhL	15.6005	20.7613	0.412305	1.14158	0.10425	0.232511	no
sbp	19.3909	25.8182	0.413006	1.18518	0.0954	0.21962	no
amyX	2.97474	3.96226	0.413556	1.38575	0.0511	0.141025	no
apt	11.532	15.3611	0.413642	1.21772	0.087	0.205476	no
gcvH	165.22	220.302	0.415094	1.67372	0.01835	0.067773	no
trnY-Phe	170.901	227.923	0.415383	0.304325	0.63355	0.760663	no
fliJ	8.43706	11.2524	0.415419	1.05018	0.13475	0.278912	no
epsD	5.16599	6.89238	0.415958	0.923965	0.1899	0.349132	no
aroF	12.9075	17.2216	0.416008	0.976604	0.166	0.321163	no
yydI	45.3869	60.598	0.416996	1.66122	0.01855	0.068175	no
ywbE	43.8517	58.5533	0.417117	0.894537	0.2059	0.368214	no
hfq	72.0458	96.2008	0.417133	1.17913	0.09735	0.222327	no
yxjG	38.4541	51.3471	0.417145	1.5146	0.03085	0.100606	no
rapK	11.9944	16.0172	0.417261	1.45881	0.0388	0.117501	no
dapB	2.74643	3.6677	0.417321	0.983196	0.16425	0.318768	no
yosP	1.83296	2.44787	0.417353	0.948185	0.1784	0.335722	no
birA	2.71908	3.63309	0.418078	0.791481	0.271	0.435955	no
rplQ	937.128	1252.46	0.418447	1.56658	0.02595	0.08769	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
gndA	42.568	56.902	0.418709	1.69672	0.0169	0.064656	no
folD	32.2562	43.1378	0.419379	1.67573	0.01705	0.064898	no
dapH	44.957	60.1399	0.419777	1.68179	0.017	0.064774	no
rsbS	27.8147	37.2184	0.420169	1.31742	0.0653	0.168275	no
yxzG	56.6787	75.8642	0.420613	1.6453	0.01905	0.069398	no
yueC	12.477	16.7006	0.42063	1.20399	0.09075	0.212186	no
braB	5.46448	7.32003	0.421765	1.43581	0.04495	0.130719	no
ykvY	10.348	13.8681	0.422411	1.57271	0.02645	0.088977	no
hprT	27.9639	37.4765	0.42242	1.05633	0.13455	0.278652	no
ywoF	5.55583	7.4468	0.422618	1.46947	0.0387	0.117501	no
epsO	5.86503	7.86162	0.42269	1.02099	0.14465	0.292116	no
xynD	2.54508	3.41179	0.422815	1.23399	0.08405	0.201052	no
tufA	744.132	997.56	0.422844	1.67449	0.0178	0.066399	no
folEA	15.1792	20.3508	0.42299	1.40275	0.0502	0.139781	no
sinR	16.9086	22.6736	0.423256	1.11066	0.11775	0.253709	no
valS	12.1811	16.3393	0.423695	1.70905	0.0174	0.065761	no
ywbD	4.27108	5.73141	0.42429	1.30216	0.0718	0.179934	no
yqgX	21.2464	28.515	0.424503	1.57185	0.024	0.082443	no
yyzG	4.04726	5.43192	0.424516	0.370148	0.7142	0.822839	no
ytzH	9.50169	12.7533	0.424616	0.766609	0.28085	0.44816	no
argG	32.2995	43.3701	0.42519	1.11532	0.1144	0.248319	no
hisZ	15.1232	20.3109	0.425491	0.832447	0.2277	0.393684	no
yitM	10.0786	13.5412	0.426065	1.17102	0.09585	0.220249	no
gerAA	0.575587	0.773358	0.426102	0.579157	0.4087	0.571354	no
fbaA	225.027	302.365	0.426192	1.60158	0.02455	0.08387	no
rocG	2.85418	3.83584	0.426464	1.21021	0.0918	0.214104	no
spoIVFA	0.227453	0.30584	0.42721	0	1	1	no
lspA	9.59988	12.9088	0.427263	1.15235	0.10675	0.236842	no
oppC	19.3896	26.0757	0.427424	1.67327	0.0189	0.069121	no
yccF	14.1002	18.9655	0.427657	1.65681	0.01895	0.069168	no
thiN	4.61674	6.20981	0.427674	1.08362	0.12625	0.266941	no
atpH	92.8889	124.997	0.428319	1.12756	0.10575	0.235182	no
hisl	48.6199	65.4393	0.42861	0.875883	0.2168	0.382395	no
rpsJ	505.137	680.094	0.42906	1.73614	0.01465	0.058133	no
ecsC	9.15553	12.3316	0.429651	1.35472	0.0538	0.145361	no
yshE	27.9839	37.6925	0.429682	1.42901	0.0474	0.135938	no
rplJ	233.733	314.845	0.42978	1.72997	0.01365	0.054983	no
fnr	3.143	4.2343	0.429979	1.00333	0.16355	0.318071	no
cgeB	0.086778	0.116921	0.430128	0	1	1	no
yvdB	0.769301	1.03698	0.430773	0.867787	0.21815	0.383684	no
ycsF	4.16084	5.60901	0.43087	1.14447	0.10815	0.238469	no
pgcA	10.8804	14.6794	0.43207	1.71073	0.0177	0.066279	no
rpmC	1803.57	2434.44	0.432735	1.05573	0.13025	0.272219	no
yvrH	4.23224	5.7136	0.432976	0.788211	0.26825	0.433238	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
qoxD	96.2114	129.894	0.433055	1.70551	0.01685	0.064531	no
yuiF	8.74662	11.8094	0.433134	1.63055	0.0189	0.069121	no
yutK	2.0699	2.79508	0.433328	1.10918	0.1172	0.25267	no
skfE	38.6568	52.2031	0.433416	1.72955	0.0142	0.056953	no
ybfP	6.12017	8.2655	0.433528	1.32956	0.06135	0.159861	no
rplW	835.7	1129.09	0.434101	1.06564	0.1278	0.268697	no
pheS	12.6075	17.0522	0.435679	1.65575	0.02025	0.072357	no
hslR	26.0687	35.2851	0.436742	1.06543	0.1353	0.279585	no
pgm	41.9738	56.8343	0.437275	1.35153	0.05315	0.144336	no
bkdAB	6.25318	8.46816	0.437459	1.39272	0.0508	0.140613	no
ytrE	4.93264	6.68129	0.437767	0.755349	0.2801	0.447154	no
aspB	62.5463	84.7308	0.437961	1.76963	0.0123	0.050693	no
lctP	11.7608	15.934	0.438121	1.73421	0.0149	0.058688	no
cspC	170.793	231.426	0.438299	1.41891	0.0448	0.130588	no
ynel	7.01334	9.50393	0.438422	0.911891	0.199	0.359754	no
ywdK	10.995	14.9033	0.438777	1.07528	0.13065	0.272645	no
tpx	40.2835	54.6033	0.438801	1.69216	0.0145	0.057783	no
murE	11.348	15.3821	0.43881	1.72365	0.0171	0.065022	no
epsE	4.84416	6.56687	0.438961	0.775028	0.2757	0.441801	no
tenI	110.759	150.191	0.439385	0.682755	0.3303	0.498722	no
appA	47.204	64.0204	0.439623	1.37709	0.0475	0.136016	no
ilvH	80.568	109.295	0.439942	0.860291	0.2219	0.387184	no
yybF	2.78279	3.77565	0.440193	1.22197	0.08385	0.200831	no
ykvl	0.191175	0.259449	0.440554	0	1	1	no
ecfT	15.8488	21.5111	0.44071	1.2531	0.07105	0.178654	no
ptsl	89.0191	120.835	0.440852	1.35542	0.0539	0.145421	no
yvcR	4.28324	5.81453	0.440959	0.813671	0.25005	0.414235	no
ffh	42.344	57.5204	0.441918	1.78957	0.01265	0.05185	no
epsF	2.90324	3.94561	0.442586	0.730496	0.3036	0.473337	no
ypmT	18.0342	24.5127	0.442794	0.645788	0.3531	0.518954	no
yjjA	6.43022	8.74076	0.442892	1.34264	0.05995	0.157421	no
mtnD	45.2635	61.532	0.442989	1.74412	0.0137	0.055125	no
pyrH	34.1831	46.4698	0.44301	1.7582	0.0129	0.052586	no
hemB	9.63535	13.1044	0.44364	1.01882	0.14595	0.293414	no
yabJ	108.65	147.772	0.443687	1.35667	0.0511	0.141025	no
dps	79.5992	108.276	0.443887	1.76691	0.01255	0.051496	no
natK	1.72294	2.34384	0.443997	0.963443	0.17585	0.332468	no
ypbD	10.3123	14.0336	0.444524	1.08378	0.12455	0.265148	no
divIVA	18.0347	24.5471	0.444777	1.45914	0.0418	0.124467	no
rplL	621.134	845.622	0.445108	1.74447	0.0128	0.052292	no
ybdG	5.26999	7.17748	0.445677	1.3634	0.0562	0.150001	no
yfiJ	1.40372	1.91181	0.445689	0.88782	0.21205	0.376416	no
rnc	23.3831	31.8506	0.445852	1.73404	0.01455	0.057859	no
yhfK	6.74832	9.19378	0.44613	1.25916	0.07485	0.185215	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ywjB	16.628	22.6574	0.446374	1.47064	0.0388	0.117501	no
rapF	120.597	164.354	0.446616	1.70021	0.01425	0.057092	no
yhaQ	12.376	16.8726	0.447133	1.2581	0.0724	0.180952	no
yraN	2.14933	2.93295	0.448465	1.00752	0.15785	0.311528	no
yybK	11.8358	16.1558	0.448889	0.807561	0.2514	0.414797	no
ytzE	18.5113	25.2703	0.449039	0.806043	0.25665	0.420321	no
yfnC	5.20504	7.10572	0.449071	1.47334	0.03945	0.118604	no
ftsL	12.8965	17.6101	0.449422	0.694622	0.3246	0.492906	no
citR	1.02637	1.40251	0.450468	0.768164	0.2833	0.451105	no
menB	16.2981	22.2787	0.450959	1.69953	0.01645	0.063259	no
resB	7.02329	9.60846	0.452157	1.37208	0.0482	0.136554	no
yrvC	6.74958	9.24023	0.45313	1.14422	0.10625	0.235872	no
appF	26.2191	35.9111	0.453813	1.493	0.03515	0.109649	no
kdgR	3.98348	5.45852	0.454479	1.3112	0.06505	0.167862	no
yjhA	13.7865	18.8977	0.454955	1.54372	0.02955	0.09713	no
rttL	2.62457	3.59773	0.455005	1.40412	0.0491	0.138369	no
yvdD	24.0868	33.0221	0.455188	1.68131	0.01665	0.063896	no
pdhD	90.2451	123.778	0.455838	1.77764	0.0122	0.050504	no
rimI	6.66713	9.14557	0.456006	0.824869	0.2489	0.413046	no
parE	6.28826	8.62732	0.45625	1.7491	0.01295	0.052675	no
tsaD	3.46894	4.76022	0.456533	1.11554	0.1143	0.248282	no
epsJ	4.96149	6.80992	0.456864	0.881831	0.2086	0.371619	no
defB	9.51797	13.0654	0.457024	1.33348	0.06015	0.157504	no
fabD	71.5649	98.2629	0.457395	1.39595	0.04775	0.136144	no
rsbX	34.3113	47.1166	0.45755	0.931675	0.1808	0.337554	no
ecfAB	12.8935	17.7065	0.457638	1.20994	0.08785	0.20696	no
skfH	33.585	46.1609	0.458854	1.64005	0.02025	0.072357	no
yitU	6.36612	8.74994	0.458858	1.38561	0.04935	0.138379	no
lutB	64.1335	88.1751	0.459292	1.6055	0.0203	0.072467	no
tsaB	8.57779	11.8035	0.460532	1.1447	0.10175	0.229291	no
yfiZ	4.88346	6.72154	0.460887	1.17667	0.0941	0.217701	no
ganB	0.155936	0.214658	0.461089	0	1	1	no
glyQ	15.348	21.1298	0.461226	1.0684	0.12755	0.268473	no
ytpl	20.6069	28.3762	0.461555	1.19273	0.0971	0.222164	no
rpsP	260.393	358.629	0.4618	1.51389	0.0319	0.103219	no
ymfD	1.07569	1.48156	0.461854	0.945854	0.1809	0.337572	no
ecsB	3.41226	4.70043	0.462067	1.05399	0.1363	0.280719	no
rttG	4.94599	6.8155	0.462558	1.624	0.02115	0.074469	no
nagR	3.24284	4.46945	0.462842	1.11417	0.11655	0.251559	no
sdpl	96.3032	132.736	0.462905	1.69483	0.0168	0.064406	no
ysnB	16.5621	22.8379	0.463542	1.50207	0.03595	0.1114	no
yfmG	162.854	224.571	0.463595	1.66704	0.01895	0.069168	no
yjnA	3.26135	4.49791	0.463787	1.13868	0.10825	0.238469	no
pdhC	131.064	180.854	0.464557	1.73768	0.0144	0.057508	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yunD	2.36011	3.25673	0.46457	1.29191	0.065	0.167849	no
epsL	5.22848	7.21533	0.464675	0.617732	0.3838	0.546988	no
yqjQ	2.74007	3.78439	0.465848	1.08631	0.12615	0.266881	no
ykvZ	1.03639	1.43142	0.465884	0.844899	0.23915	0.404278	no
sipW	19.3434	26.7181	0.465974	1.41501	0.04405	0.12931	no
ykqA	8.70168	12.0242	0.466575	1.54769	0.0292	0.096234	no
yvaQ	1.38998	1.92078	0.46663	1.18651	0.09735	0.222327	no
yutF	7.96795	11.0138	0.467035	1.47347	0.03925	0.118289	no
thiL	3.92446	5.42649	0.467524	1.33136	0.06	0.157442	no
pksD	5.64501	7.81133	0.468593	0.998748	0.15435	0.305752	no
ymfF	8.80116	12.191	0.470055	1.23325	0.08075	0.194529	no
yrrD	0.835439	1.15736	0.470233	0.527209	0.45895	0.616647	no
bsdA	0.317715	0.440226	0.470513	0	1	1	no
ecfA	10.6203	14.7187	0.47083	1.6494	0.0191	0.069512	no
ssuD	0.08429	0.116819	0.470844	0	1	1	no
yneP	4.71525	6.5404	0.472045	0.851112	0.2304	0.395911	no
yvcQ	5.73711	7.95848	0.472167	1.38486	0.0494	0.138379	no
ycbJ	13.1851	18.2947	0.472516	1.77139	0.01245	0.051199	no
trnD-Cys	3951.62	5490.06	0.474378	1.26746	0.0759	0.186454	no
yqkA	9.4452	13.1229	0.474434	1.36192	0.05295	0.144107	no
yydD	8.43465	11.7229	0.474931	1.27767	0.0714	0.179172	no
yhfl	8.60432	11.9618	0.475303	1.50033	0.0351	0.109649	no
yqhT	29.8307	41.4872	0.475867	1.67452	0.01575	0.06107	no
xpt	41.3939	57.5844	0.476261	1.20314	0.08905	0.208865	no
epsN	5.13466	7.1438	0.476424	1.22189	0.08585	0.204125	no
sspG	27.766	38.6323	0.476489	0.525161	0.4657	0.622824	no
resC	7.38295	10.2754	0.476929	1.694	0.01545	0.06022	no
ycbm	1.38106	1.92235	0.477099	0.947503	0.18235	0.339938	no
pnbA	3.67077	5.11039	0.477352	1.51511	0.03315	0.105685	no
yqgV	6.22701	8.67305	0.478	0.832225	0.2427	0.407483	no
kipR	6.01728	8.38642	0.478944	1.39229	0.05205	0.142489	no
yvbF	7.76285	10.8321	0.480661	1.33475	0.06235	0.16224	no
kipA	3.15222	4.39943	0.480947	1.30517	0.06745	0.172034	no
dgk	4.61976	6.44761	0.480947	0.881316	0.2135	0.378183	no
yhaM	4.8893	6.82509	0.481221	1.42977	0.0496	0.138628	no
ydfO	1.34001	1.87164	0.482054	0.951721	0.1794	0.336285	no
epsK	4.64089	6.48253	0.482155	1.10759	0.11225	0.244683	no
pgsA	11.1089	15.5252	0.482904	1.49351	0.0382	0.116917	no
thiO	64.623	90.3302	0.483162	0.864169	0.22625	0.391482	no
hisD	18.0319	25.2068	0.483259	1.09368	0.1191	0.255586	no
spcB	6.76087	9.45123	0.483293	1.02793	0.1423	0.289248	no
gatC	74.4854	104.241	0.484889	1.71071	0.01445	0.057646	no
comX	75.2422	105.313	0.485074	0.688782	0.3261	0.494179	no
yhcM	0.788405	1.10399	0.485723	0.45127	0.5037	0.654782	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yrhP	2.48373	3.47842	0.485921	0.990357	0.15875	0.312809	no
ykuN	17.8551	25.0108	0.486214	1.17188	0.09575	0.220154	no
trnS-Leu2	225.901	316.454	0.486301	0.586759	0.3985	0.559608	no
cheW	20.7297	29.0485	0.486766	1.62259	0.02385	0.082155	no
yqjF	1.56047	2.18757	0.487343	0.89799	0.2025	0.364052	no
yflH	10.6038	14.8801	0.488802	1.04229	0.14015	0.286751	no
yjbQ	1.79765	2.52338	0.489249	1.37804	0.05155	0.141535	no
yobT	1.7231	2.42118	0.49071	0.91543	0.19905	0.359754	no
ytrA	4.16973	5.86317	0.491727	0.580237	0.419	0.581384	no
rpIC	535.329	752.908	0.492048	1.76073	0.0133	0.053747	no
yuaC	6.26666	8.81419	0.492132	1.27468	0.07305	0.182089	no
greA	24.7894	34.8676	0.492166	1.72226	0.01535	0.060018	no
yydB	9.15116	12.8742	0.492453	1.24491	0.07655	0.18768	no
nsrR	11.9494	16.8178	0.493047	1.37398	0.0511	0.141025	no
yfml	6.71533	9.4521	0.493177	1.73346	0.01515	0.05936	no
yxeB	9.26487	13.0411	0.493217	1.74617	0.01365	0.054983	no
yxeC	30.137	42.4225	0.493293	1.66883	0.0199	0.07138	no
hmoA	19.1535	26.9658	0.493521	1.32668	0.05975	0.157007	no
ymzC	10.1037	14.2298	0.494032	0.89704	0.2079	0.370902	no
sdaAA	5.16993	7.28306	0.494402	1.1148	0.11575	0.250412	no
hmoB	11.966	16.8605	0.494703	1.4594	0.0432	0.127316	no
tapA	7.49002	10.5578	0.495267	1.15952	0.0987	0.224244	no
ytqA	3.74363	5.28243	0.496762	0.969128	0.16375	0.318294	no
yqjZ	25.3015	35.7078	0.497013	0.916183	0.19025	0.349603	no
ymfK	26.8666	37.9312	0.497572	1.28775	0.06995	0.176363	no
glyS	10.955	15.4686	0.497758	1.63093	0.02005	0.07178	no
epsC	2.42721	3.42779	0.497979	1.51182	0.03325	0.105754	no
mhqA	1.94004	2.74043	0.498311	1.13562	0.1147	0.248716	no
nrdI	11.6892	16.5252	0.499492	0.647697	0.36455	0.529455	no
ytgP	3.81566	5.39621	0.500014	1.66037	0.0194	0.070126	no
yhfS	9.50943	13.4506	0.500243	1.12409	0.1106	0.241792	no
ylmH	10.9992	15.5608	0.500516	1.7204	0.0161	0.062105	no
ung	4.15025	5.87455	0.501279	1.26775	0.0738	0.183224	no
yraK	1.01332	1.43436	0.501317	0.823652	0.24265	0.407483	no
ilvB	49.0057	69.377	0.501508	1.70488	0.01455	0.057859	no
iolF	0.702262	0.994281	0.501643	0.90278	0.2038	0.365684	no
rpIP	321.399	455.421	0.502837	1.46709	0.03405	0.107542	no
yxeH	8.34575	11.8284	0.503141	1.63409	0.0232	0.080212	no
yaaA	48.7141	69.0728	0.503779	1.2434	0.08225	0.197506	no
ispF	9.26001	13.1402	0.504905	0.789956	0.2475	0.411288	no
ytzG	2.0244	2.88067	0.508911	1.03336	0.14785	0.296494	no
yxij	23.487	33.4304	0.509302	1.35121	0.056	0.149681	no
dtd	13.3452	19.0034	0.509936	1.40083	0.05005	0.139607	no
garD	0.339899	0.484082	0.510147	0	1	1	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yhfP	4.21303	6.00604	0.511557	1.49315	0.0354	0.110061	no
rlmB	7.40003	10.5634	0.513477	1.33459	0.06065	0.158479	no
ylzl	40.9244	58.432	0.513798	0.776953	0.26525	0.429507	no
yfjF	4.43915	6.33861	0.513882	0.813623	0.2487	0.412915	no
tenA	100.796	143.96	0.514225	0.875022	0.21345	0.378183	no
ybaJ	7.60277	10.8635	0.51489	1.60804	0.02505	0.085422	no
minJ	6.38067	9.1237	0.515911	1.78201	0.01225	0.050599	no
hinT	13.356	19.0991	0.516017	1.48575	0.0367	0.113348	no
kbaA	13.3418	19.0823	0.516278	1.69861	0.0175	0.065872	no
yocC	2.44099	3.49184	0.516519	0.907636	0.1998	0.360761	no
cheV	7.99053	11.4306	0.516534	1.73474	0.01545	0.06022	no
trnB-Leu1	1409.22	2016.39	0.516872	1.30152	0.0657	0.168956	no
acuA	3.60444	5.15854	0.517188	1.20366	0.09105	0.212488	no
ylqG	4.39258	6.28732	0.517376	1.74902	0.01465	0.058133	no
ilvC	137.789	197.246	0.517535	1.32915	0.05795	0.153683	no
yesU	0.141589	0.202692	0.517574	0	1	1	no
buk	5.63104	8.06253	0.517831	1.68564	0.0195	0.070419	no
ypqE	13.9711	20.0122	0.518438	1.61088	0.024	0.082443	no
ypfA	3.70646	5.31099	0.51894	1.24893	0.0789	0.191805	no
rttM	12.9919	18.618	0.519082	1.51547	0.03265	0.104859	no
thiW	9.8733	14.1602	0.520239	1.43268	0.0388	0.117501	no
yvbl	11.7493	16.8509	0.520251	1.75785	0.0144	0.057508	no
yvbK	6.48055	9.30116	0.521295	1.26351	0.0759	0.186454	no
bioK	35.4012	50.8693	0.522996	1.06768	0.12535	0.265595	no
yqjV	2.68775	3.86552	0.524263	1.4608	0.03955	0.118809	no
ybfM	17.2746	24.8553	0.524902	1.17136	0.0976	0.222696	no
ytqB	1.99981	2.87774	0.525068	0.50586	0.48565	0.639428	no
ywlA	2.31961	3.33828	0.525221	0.680678	0.34235	0.509574	no
rpmH	607.308	874.406	0.525875	1.66381	0.0214	0.07496	no
opuAC	41.3895	59.6025	0.526106	1.62041	0.02085	0.073935	no
qodI	3.97545	5.72737	0.526756	1.52838	0.03345	0.106029	no
yxaj	18.1334	26.1307	0.527097	1.61263	0.026	0.087779	no
ymfK	7.8915	11.3745	0.527435	0.958169	0.1708	0.326892	no
ycgJ	0.520572	0.750811	0.528353	0.609074	0.3912	0.552336	no
thiG	41.9808	60.5554	0.528526	0.593451	0.39705	0.558203	no
defA	6.58342	9.49876	0.528903	1.31056	0.06965	0.176208	no
ypzF	61.4593	88.734	0.529856	0.855124	0.2262	0.391482	no
hisH	50.028	72.2574	0.530411	1.15758	0.1032	0.231302	no
mtnU	7.80619	11.2772	0.530718	1.68117	0.0182	0.067286	no
ykoS	0.096144	0.138937	0.531161	0	1	1	no
yybD	1.36712	1.97679	0.53202	0.644912	0.35145	0.517678	no
yjKB	1.4214	2.05975	0.53515	0.800148	0.2592	0.423383	no
yusY	14.2191	20.6076	0.535352	0.761582	0.28545	0.453755	no
aroB	17.7399	25.7188	0.535828	1.48285	0.03475	0.108856	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
thiX	11.7161	16.9959	0.536692	0.931025	0.17975	0.336772	no
ydbL	18.293	26.5474	0.537278	1.45238	0.04205	0.124813	no
mscL	19.413	28.1939	0.538362	1.62029	0.02185	0.076322	no
xkzB	16.175	23.4955	0.538624	0.750044	0.49995	0.652406	no
rimM	14.7953	21.492	0.538664	1.19843	0.0906	0.211968	no
yqfG	10.9463	15.9125	0.539715	1.29526	0.06635	0.170276	no
yitP	1.2472	1.81331	0.539925	0.493626	0.4928	0.645881	no
catE	1.29993	1.8913	0.540948	1.016	0.1525	0.30273	no
lrpA	1.60393	2.3348	0.541691	0.667193	0.3411	0.509467	no
gerBA	0.125281	0.182433	0.542206	0	1	1	no
ycnK	10.44	15.2057	0.542485	1.65408	0.02055	0.073149	no
purB	70.6962	103.039	0.543493	1.62225	0.0212	0.074469	no
ecsA	7.20903	10.5184	0.545033	1.3527	0.055	0.147642	no
yueB	7.48714	10.9284	0.545599	1.51594	0.0317	0.10275	no
rpe	8.15422	11.9049	0.54593	1.63649	0.02105	0.074292	no
hisB	28.3384	41.3881	0.546456	0.945197	0.1793	0.336285	no
bioD	55.3072	80.7759	0.546456	0.907079	0.19325	0.353468	no
ypiF	2.18563	3.19232	0.546558	0.840306	0.2448	0.408803	no
mlpA	3.4954	5.10636	0.546836	1.63053	0.02165	0.075694	no
resD	9.74632	14.2388	0.546895	1.20567	0.08595	0.204125	no
yfiG	0.233723	0.341523	0.547181	0	1	1	no
fliH	12.2869	17.9579	0.547491	1.09771	0.11955	0.256404	no
bshA	1.3443	1.96495	0.547633	0.889713	0.2066	0.368936	no
yesE	1.65508	2.4197	0.54793	0.683828	0.34	0.508829	no
yjcQ	42.3077	61.9431	0.550024	1.65866	0.0212	0.074469	no
metC	17.437	25.5439	0.550827	1.40245	0.049	0.138296	no
ybfF	2.70844	3.96892	0.551288	1.38521	0.05045	0.14006	no
appA	106.559	156.253	0.552226	1.36751	0.0494	0.138379	no
yqbG	1.07699	1.57966	0.552617	0.487308	0.5118	0.662643	no
yfhA	3.8997	5.72714	0.554451	1.30938	0.0609	0.159021	no
yoZ	35.9998	52.8768	0.554645	1.50326	0.03375	0.106799	no
ydbB	4.91082	7.21623	0.555282	0.840792	0.23475	0.400987	no
gudD	0.194003	0.285133	0.555553	0	1	1	no
fabG	66.4292	97.707	0.556644	1.40823	0.0448	0.130588	no
yybJ	13.7143	20.174	0.556814	1.00365	0.1562	0.309089	no
yhaI	10.9962	16.1783	0.557059	0.625747	0.3787	0.542691	no
opuBD	6.66784	9.81082	0.557154	1.61823	0.02525	0.085947	no
yraJ	3.80728	5.60332	0.557523	0.912191	0.196	0.356659	no
ywID	0.7702	1.1349	0.559258	0.611488	0.37415	0.538165	no
mccB	1.8737	2.76674	0.562295	1.37263	0.05135	0.141402	no
yocB	1.36296	2.01965	0.567365	1.03827	0.1443	0.291984	no
ykkC	1.5452	2.28975	0.567396	0.540894	0.4628	0.620724	no
spoOB	10.5393	15.6196	0.567577	1.73627	0.0149	0.058688	no
yacP	14.8349	21.9859	0.567583	1.80946	0.01235	0.050843	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ylxF	8.69286	12.8866	0.567972	1.69938	0.0177	0.066279	no
yxjN	3.79286	5.62425	0.568373	1.15477	0.1075	0.237518	no
sirC	42.6172	63.3253	0.571349	1.28852	0.0684	0.173864	no
ywqM	1.26043	1.87293	0.571374	1.07525	0.131	0.272661	no
ymfJ	1.57054	2.33503	0.572185	0.533847	0.6151	0.749174	no
purS	224.439	334.342	0.575	0.482877	0.4834	0.637853	no
bioY	8.15861	12.1655	0.576398	1.63945	0.0211	0.074398	no
yzkC	5.33182	7.95113	0.576532	1.24498	0.08055	0.194298	no
mgsA	9.87744	14.7508	0.578584	1.18425	0.0967	0.221656	no
cydB	1.61742	2.4156	0.578686	0.830315	0.24025	0.404278	no
ydbM	3.95862	5.91577	0.579568	1.7505	0.0134	0.054093	no
yuiC	1.72146	2.57608	0.581545	1.05688	0.13895	0.284554	no
yxdl	0.235806	0.353099	0.582467	0	1	1	no
iscSB	2.63598	3.94827	0.582882	1.57772	0.0255	0.086561	no
epsG	4.70244	7.04893	0.583994	1.24687	0.07835	0.190716	no
aldX	1.62745	2.44036	0.58448	1.45073	0.0449	0.130719	no
yoyD	246.283	369.863	0.586676	0.932745	0.1933	0.353468	no
hprK	4.49348	6.74928	0.586902	1.71058	0.01735	0.065761	no
yhdJ	4.77568	7.17604	0.587482	1.2142	0.087	0.205476	no
skfC	37.7057	56.7109	0.588842	1.34314	0.0588	0.155275	no
ytwl	3.29377	4.95462	0.589032	1.1212	0.115	0.249222	no
yfjD	4.27875	6.44684	0.591402	1.38483	0.0558	0.14936	no
trnI-Thr	504.927	760.976	0.591778	0.764341	0.2689	0.433725	no
yydH	28.4654	42.9769	0.594348	1.33236	0.0596	0.156944	no
ymbD	11.7747	17.779	0.594488	1.73556	0.01505	0.059154	no
ohrA	7.11339	10.7456	0.595134	1.40905	0.0487	0.137762	no
ymbB	1.64752	2.49091	0.596374	1.23407	0.08455	0.20186	no
ylqC	142.635	215.703	0.596714	1.18848	0.09525	0.21962	no
yrdK	2.68964	4.07113	0.598019	0.458093	0.53445	0.683671	no
suhB	5.32187	8.06185	0.599179	1.7406	0.01475	0.058344	no
ykoA	6.93486	10.5094	0.599746	0.920587	0.19295	0.353347	no
thiF	43.6017	66.0831	0.599896	0.845069	0.23365	0.40001	no
yvbG	4.57215	6.93408	0.600833	1.53269	0.0303	0.098985	no
yhaP	7.26541	11.0254	0.601712	1.65757	0.01885	0.069074	no
fliL	16.8831	25.6208	0.601739	1.55906	0.0287	0.095005	no
yvnA	3.95303	6.00319	0.602772	1.22773	0.083	0.199051	no
nagA	3.34298	5.07717	0.60289	1.55755	0.0275	0.092012	no
ctaE	17.8499	27.2032	0.607857	1.38175	0.04925	0.138379	no
yobV	1.39337	2.12399	0.608197	1.2413	0.08565	0.203835	no
ygaN	1.71491	2.61736	0.609977	0.980226	0.1671	0.322622	no
rapE	1.10872	1.69576	0.613037	0.953503	0.16905	0.32521	no
ypul	5.25358	8.03841	0.613609	1.51517	0.03585	0.111183	no
yuzC	1.01483	1.55286	0.613688	0.411497	0.56075	0.705311	no
yubD	1.06955	1.63739	0.614393	1.40212	0.052	0.142456	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ydgC	13.1909	20.2109	0.615596	1.55418	0.02765	0.092431	no
yerC	16.1525	24.7562	0.616036	1.53507	0.0328	0.104859	no
ydjG	21.6678	33.2147	0.616267	1.75571	0.01275	0.052202	no
nasE	9.53855	14.6355	0.617633	1.31521	0.0692	0.175539	no
ycbK	1.74733	2.68259	0.618477	1.36655	0.05385	0.145391	no
yrdN	0.717539	1.10354	0.621005	0.503332	0.47255	0.629505	no
trmD	9.66284	14.8653	0.621433	1.44764	0.0418	0.124467	no
hisF	25.0518	38.5415	0.621498	1.10603	0.12105	0.259175	no
adk	354.742	546.206	0.622676	1.64747	0.0182	0.067286	no
hisA	27.9089	43.0028	0.623703	1.14939	0.1035	0.231557	no
czrA	12.8737	19.8434	0.624233	1.48588	0.0389	0.117709	no
yrpE	0.267033	0.411704	0.624591	0	1	1	no
niaR	11.4996	17.7369	0.625168	1.06924	0.1352	0.279533	no
cah	1.84972	2.8551	0.626236	1.41881	0.0501	0.139607	no
pduO	2.47376	3.81884	0.626426	1.21088	0.09305	0.216075	no
yybA	1.57824	2.43694	0.626753	0.861179	0.2317	0.397595	no
ganQ	0.742982	1.14775	0.627411	0.921549	0.18885	0.348058	no
yoZH	3.38728	5.24105	0.629729	0.965573	0.16755	0.323324	no
yticB	0.058084	0.089879	0.629834	0	1	1	no
yetK	8.24456	12.766	0.630795	1.59141	0.02315	0.080113	no
yphS	16.1065	24.9421	0.630941	1.29992	0.0685	0.173999	no
nfrAB	2.61224	4.04676	0.631481	1.44781	0.04435	0.129681	no
ywoC	2.67267	4.14136	0.631824	1.08772	0.12425	0.264811	no
slrA	25.9084	40.156	0.632194	0.807779	0.26575	0.429919	no
gerD	5.34234	8.28832	0.633608	1.58903	0.02615	0.088206	no
hisG	33.23	51.6456	0.63616	1.28204	0.06965	0.176208	no
yhjQ	0.446997	0.694732	0.636193	0.290489	0.5642	0.707792	no
coaD	5.91619	9.20034	0.637021	1.54577	0.0343	0.108081	no
ywzA	32.0614	49.8983	0.638157	1.59634	0.02695	0.090415	no
rocR	1.88111	2.9297	0.639167	1.64099	0.02095	0.074149	no
yncB	0.491307	0.766253	0.641197	0.645193	0.36435	0.529371	no
lutC	35.8534	55.9244	0.641365	1.08002	0.131	0.272661	no
yphP	3.12082	4.87129	0.642376	1.38921	0.04975	0.138943	no
yecA	0.794627	1.24061	0.642701	1.21411	0.0871	0.205582	no
yxzI	54.266	84.8619	0.645069	1.43655	0.0478	0.136144	no
ycsi	2.50259	3.91784	0.646637	1.48487	0.03755	0.115401	no
ybgF	2.11937	3.31813	0.646737	1.78452	0.0133	0.053747	no
flhF	6.38763	10.0234	0.650027	1.1613	0.1036	0.231642	no
ytxB	2.69994	4.24102	0.651487	1.41009	0.05145	0.141469	no
ywoD	1.18059	1.85818	0.654382	1.334	0.0575	0.152706	no
albC	6.45959	10.1754	0.655574	1.46797	0.03765	0.115613	no
yjzD	14.0068	22.0705	0.655993	0.802031	0.24505	0.409037	no
purN	26.1788	41.2656	0.656539	0.688182	0.32295	0.491801	no
sodC	2.88631	4.55375	0.657826	1.39022	0.05295	0.144107	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yybM	20.593	32.5424	0.660168	1.66408	0.01805	0.067063	no
pbpX	2.0054	3.18203	0.666056	1.69451	0.0175	0.065872	no
purM	62.4411	99.0917	0.666268	1.58718	0.0224	0.078024	no
dctR	1.99853	3.17274	0.666788	1.07418	0.1252	0.265578	no
bioF	39.6065	62.9106	0.667566	1.38187	0.0493	0.138379	no
ywnG	5.95884	9.46864	0.668124	1.42115	0.04555	0.131746	no
antE	23.7969	37.8766	0.670531	0.632707	0.3733	0.537356	no
cheD	15.5327	24.758	0.67259	1.54972	0.0296	0.097209	no
mapA	259.693	414.25	0.673695	1.69622	0.01695	0.064715	no
yhfA	0.179121	0.286272	0.676453	0	1	1	no
hepT	6.46733	10.3405	0.677068	1.34871	0.0534	0.14491	no
opuAB	26.0847	41.7148	0.677357	1.63381	0.0193	0.069967	no
coaBC	3.18049	5.09483	0.679784	1.44671	0.03715	0.11436	no
yokI	0.132161	0.212319	0.683931	0	1	1	no
yusU	8.2202	13.2322	0.686812	1.23982	0.08625	0.20434	no
ywkF	3.77505	6.08005	0.687589	0.877318	0.21845	0.383855	no
moaD	7.24675	11.6821	0.688896	0.489516	0.4907	0.644164	no
yhfO	3.3879	5.4704	0.691253	1.3098	0.0697	0.176208	no
yxkD	1.82255	2.94915	0.694339	1.489	0.038	0.1164	no
yuxO	6.97376	11.3093	0.697507	1.52569	0.0347	0.108791	no
bceR	1.86736	3.03465	0.700527	0.91677	0.18905	0.348255	no
catD	5.0177	8.15884	0.701336	1.43633	0.0455	0.131746	no
ycnE	7.07353	11.512	0.702637	1.19281	0.09395	0.217489	no
thiV	22.5026	36.9512	0.715529	1.54395	0.0303	0.098985	no
yuzG	6.54148	10.7788	0.720515	0.334462	0.54595	0.692578	no
ywrF	2.43735	4.02333	0.723075	1.47911	0.03845	0.117298	no
ykuE	0.693217	1.14467	0.723558	1.04897	0.1425	0.289497	no
cotY	0.19716	0.325657	0.723986	0	1	1	no
yrhC	4.32486	7.14498	0.724275	0.714632	0.31895	0.488298	no
yisL	9.82525	16.2797	0.728513	1.7264	0.01695	0.064715	no
purQ	69.6666	115.577	0.730311	0.933207	0.1866	0.345196	no
yukD	8.65107	14.3709	0.732199	1.08527	0.12475	0.265271	no
yabP	15.101	25.111	0.733674	1.23353	0.08435	0.201641	no
cca	1.92956	3.21846	0.738099	1.40478	0.0508	0.140613	no
rarA	1.20612	2.01292	0.738919	1.65312	0.02285	0.079222	no
yImC	10.964	18.3261	0.741126	1.2614	0.0782	0.190475	no
yrvD	11.4663	19.1659	0.741139	1.71024	0.01855	0.068175	no
yydC	18.2505	30.507	0.741204	1.10447	0.1181	0.25417	no
yuzB	3.98867	6.66976	0.741727	0.735102	0.2941	0.463558	no
ytIC	0.074888	0.125346	0.743116	0	1	1	no
bshBA	2.1115	3.53638	0.744005	1.16803	0.101	0.228013	no
yitO	1.65539	2.77608	0.745874	1.1801	0.0949	0.21928	no
yfjL	2.78199	4.66567	0.745966	1.7026	0.0204	0.072685	no
ywiC	0.4284	0.718814	0.746658	0.786356	0.2725	0.437453	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
moeA	3.29751	5.55173	0.751563	1.66408	0.0184	0.067891	no
yitZ	4.27846	7.20993	0.752895	1.66981	0.0206	0.073258	no
srfAB	303.683	512.087	0.753822	1.79091	0.02095	0.074149	no
ywmE	27.2649	45.9919	0.754333	1.03784	0.1488	0.297759	no
yfiN	0.172916	0.293164	0.761633	0	1	1	no
yvfU	2.3875	4.06087	0.766291	1.53853	0.0353	0.109933	no
spoIVCB	0.792929	1.34893	0.766553	0.603032	0.3714	0.535861	no
yoaM	0.929852	1.5822	0.766859	1.11432	0.114	0.247774	no
tcyC	1.40488	2.39057	0.766909	1.41373	0.0525	0.143405	no
ywcl	1.16815	1.98832	0.76733	0.584485	0.4003	0.561714	no
srfAA	232.534	396.877	0.771251	2.01386	0.013	0.052821	no
purC	87.7708	150.573	0.778647	1.1864	0.0945	0.218491	no
yybL	10.5319	18.1976	0.788991	1.38451	0.05215	0.142658	no
cydD	0.444688	0.770566	0.793127	0.795053	0.26215	0.426894	no
ywhH	4.03294	6.99876	0.795269	1.69773	0.02085	0.073935	no
yddR	0.370959	0.644284	0.796439	0.799907	0.26095	0.425869	no
yxen	1.74792	3.03872	0.797827	1.51353	0.0386	0.117501	no
ydcF	0.678182	1.18407	0.804011	0.470707	0.618	0.74971	no
ypuC	0.621313	1.08639	0.806155	0.3113	0.6891	0.801955	no
yqaM	0.07643	0.133687	0.806651	0	1	1	no
gutP	0.449627	0.78847	0.810329	1.29188	0.07875	0.191565	no
fabZ	3.90685	6.86735	0.813749	1.57525	0.0323	0.104152	no
yunC	5.97609	10.5235	0.816348	1.3993	0.04935	0.138379	no
purF	44.2829	78.2752	0.821805	1.4038	0.0433	0.12751	no
yybO	0.420848	0.745269	0.82446	1.23977	0.08745	0.206278	no
yoaU	0.330681	0.587665	0.829553	0.892745	0.22605	0.391482	no
paiA	1.81236	3.22124	0.829745	1.36373	0.05665	0.150878	no
csbD	25.0625	44.6589	0.833417	1.39562	0.0508	0.140613	no
yxIA	0.965036	1.72192	0.835364	1.80642	0.01325	0.053661	no
ybxI	0.664924	1.18911	0.838625	1.15383	0.106	0.235598	no
ydzW	68.9126	123.617	0.843044	0.768006	0.3058	0.475576	no
yozi	5.19208	9.31707	0.843563	1.62871	0.02515	0.085684	no
epsI	3.04277	5.46558	0.84499	1.28515	0.07905	0.192045	no
ypjB	1.44543	2.59972	0.846865	1.64594	0.0277	0.092432	no
yceK	8.25829	14.8923	0.850649	1.64855	0.02665	0.089569	no
yfkK	15.7735	28.6028	0.858651	1.43555	0.04625	0.133254	no
yxeg	1.00246	1.81814	0.858925	0.921328	0.19885	0.359741	no
ytzD	12.3485	22.4311	0.861158	0.596235	0.4123	0.574022	no
ykkB	0.961097	1.75156	0.865885	1.01295	0.1452	0.292594	no
-	44.2142	80.7254	0.868512	1.45562	0.04305	0.127074	no
ybgG	1.3705	2.50286	0.868876	1.80766	0.01315	0.053372	no
adhA	0.220596	0.403404	0.870822	0	1	1	no
spollAB	2.36811	4.3483	0.876715	1.30346	0.0779	0.18999	no
gerE	5.70678	10.5206	0.882468	0.978699	0.17135	0.327777	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
ycxB	1.13692	2.10004	0.885289	1.23365	0.0863	0.20434	no
yycQ	3.13462	5.81798	0.892226	0.83875	0.22795	0.393684	no
gudP	0.126849	0.236839	0.900791	0	1	1	no
ymaD	2.13333	3.98675	0.902105	1.45092	0.0492	0.138379	no
spolIIC	0.567011	1.06132	0.904417	0.647223	0.3553	0.520067	no
ywnC	4.82842	9.05649	0.907401	1.78336	0.016	0.061847	no
ydfN	1.12167	2.10554	0.90854	1.38568	0.0587	0.155121	no
yrzQ	3.20748	6.03059	0.910859	2.43316	0.5318	0.681513	no
ycgF	1.97247	3.72744	0.918179	1.76365	0.0174	0.065761	no
ydgB	0.277744	0.525656	0.920363	0	1	1	no
yxeF	3.34471	6.33056	0.920452	1.56545	0.03165	0.102677	no
ydaC	0.063262	0.119836	0.92165	0	1	1	no
cydC	0.819586	1.5621	0.930517	1.34572	0.0633	0.164369	no
rhaU	0.868085	1.668	0.94221	0.614112	0.3717	0.535879	no
yoze	11.2188	21.9566	0.968738	1.49131	0.042	0.124764	no
rtpA	18.0996	35.4612	0.970283	1.12166	0.13315	0.276366	no
yxzK	0.729048	1.42857	0.970486	0.790916	0.2643	0.429151	no
yybC	1.36227	2.6749	0.973478	1.34175	0.0728	0.181708	no
sspB	2.76703	5.44879	0.977598	1.06902	0.4178	0.580166	no
yobM	2.01712	3.97215	0.977621	1.78415	0.01575	0.06107	no
yvdS	0.644295	1.27104	0.980217	0.719087	0.53415	0.683522	no
yceJ	0.407702	0.813573	0.996756	1.42999	0.06465	0.167525	no
ybdZ	19.0712	38.1901	1.00181	1.78445	0.01475	0.058344	no
ydzS	21.3911	42.8896	1.00362	0.465152	0.3068	0.476535	no
yppF	13.9616	28.0598	1.00704	1.3293	0.0648	0.167681	no
ydzW	9.02233	18.1342	1.00714	0.376117	0.54465	0.691507	no
yoxC	3.86229	7.76442	1.00742	1.44996	0.04805	0.13644	no
ytaB	0.474551	0.955962	1.01039	0.818556	0.22145	0.386761	no
gerBB	0.197087	0.402307	1.02947	0	1	1	no
yezD	4.85573	9.94467	1.03423	0.640967	0.31625	0.485159	no
yxaC	0.416518	0.853508	1.03503	1.0419	0.132	0.274437	no
ylxH	7.63722	15.8723	1.05539	1.81565	0.01285	0.052439	no
yqfC	2.38073	4.95744	1.05819	1.0878	0.13315	0.276366	no
sboX	27.4059	57.1498	1.06026	1.32602	0.0766	0.18768	no
yciB	0.090897	0.190177	1.06503	0	1	1	no
yjfA	0.736184	1.54633	1.07071	1.08027	0.13035	0.272219	no
ymxH	2.62066	5.53818	1.07948	1.55927	0.1531	0.303598	no
rpmGcb	8.29953	17.6616	1.08951	0.970685	0.3252	0.493319	no
trnQ-Arg	587.958	1259.26	1.09879	1.73423	0.01935	0.070013	no
ymaG	0.26923	0.577585	1.10119	0.501171	0.3842	0.547141	no
yngG	0.093495	0.208659	1.15819	0	1	1	no
ynaD	0.671799	1.50256	1.16132	1.22837	0.09885	0.224244	no
yhdC	0.633146	1.42125	1.16655	0.742796	0.29545	0.465097	no
sspD	8.36565	19.3877	1.21259	1.36869	0.07465	0.184843	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yugE	2.2779	5.43162	1.25368	1.12953	0.1179	0.253886	no
yesY	0.173289	0.413459	1.25456	0	1	1	no
ysnE	1.0112	2.41366	1.25515	1.49017	0.05545	0.14853	no
yzkK	1.35123	3.23033	1.25741	1.72172	0.5332	0.682774	no
yteS	0.072068	0.172961	1.26301	0	1	1	no
spmB	0.064963	0.155913	1.26306	0	1	1	no
yvzJ	3.13991	7.63861	1.28259	1.6957	0.18665	0.345196	no
yuzI	0.795227	1.96955	1.30843	0.636695	0.2424	0.407345	no
yoZD	2.25044	5.59427	1.31374	1.07626	0.2934	0.463237	no
phrG	41.5562	103.479	1.3162	1.35509	0.085	0.202546	no
ywnA	1.56707	3.91	1.31909	1.75716	0.02895	0.095663	no
ytkC	0.171526	0.433303	1.33695	0	1	1	no
gutB	0.313635	0.825905	1.39689	1.74643	0.03125	0.101644	no
trnSL-Arg1	252.463	687.469	1.44522	1.50443	0.05835	0.154415	no
trnB-Arg	101.67	280.93	1.46632	1.08712	0.16695	0.322499	no
yqkE	2.8047	7.86629	1.48784	1.2296	0.11445	0.248319	no
yocL	0.921433	2.59718	1.49499	1.23655	0.116	0.250662	no
yflJ	11.4071	32.3685	1.50466	1.12654	0.15915	0.313035	no
yfjA	0.755026	2.15634	1.51398	1.56507	0.1707	0.326869	no
yhaX	0.032712	0.101235	1.62981	0	1	1	no
yodA	0.90268	2.81364	1.64015	1.63682	0.04355	0.128145	no
ycgH	0.076382	0.250884	1.71572	0	1	1	no
yzkV	1.6421	5.47139	1.73636	0.348189	0.35675	0.521576	no
ysnD	0.257581	0.88462	1.78003	1.10242	0.30335	0.473337	no
spoVM	20.1738	79.5313	1.97904	1.6674	0.35055	0.517169	no
slp	0.251379	0.991973	1.98044	1.44629	0.1698	0.325575	no
yyzH	6.06561	25.4003	2.06612	2.95148	0.09735	0.222327	no
yjzG	2.389	10.2228	2.0973	2.23813	0.16075	0.314427	no
acoB	0.026302	0.112968	2.10267	0	1	1	no
ybfE	1.03287	4.73598	2.19701	1.73334	0.0683	0.173846	no
ypzG	5.65053	26.2707	2.217	3.24234	0.09365	0.217198	no
yqaB	0.068655	0.329543	2.26303	0	1	1	no
ypjA	0.22005	1.11944	2.34687	1.61671	0.06645	0.170415	no
trnD-Leu2	30.0064	161.089	2.42452	2.74713	0.2377	0.403275	no
yczL	0.947338	5.18974	2.45371	1.88782	0.27275	0.437666	no
tIp	0.35156	2.43954	2.79477	1.69262	0.25255	0.41606	no
yesK	0.208641	1.54061	2.88441	1.47249	0.2484	0.4126	no
ygzA	0.691757	5.27425	2.93063	2.31699	0.2473	0.411288	no
bsdD	1.7275	0	#NAME?	#NAME?	0.01485	0.058615	no
yczF	2.19482	0	#NAME?	#NAME?	0.01775	0.066279	no
yczK	4.71336	0	#NAME?	#NAME?	0.01775	0.066279	no
yraG	1.36125	0	#NAME?	#NAME?	0.02555	0.086573	no
yzkH	1.60066	0	#NAME?	#NAME?	0.0328	0.104859	no
gerPA	1.67151	0	#NAME?	#NAME?	0.0328	0.104859	no

Table S3	value_als S High sorted	value_als S Normal sorted	log2(fold change)	test_stat	p_value	q_value	significant
yrpDX	73.0835	0	#NAME?	#NAME?	0.0328	0.104859	no
sspJ	5.05176	0	#NAME?	#NAME?	0.0729	0.181836	no
yqzN	2.20485	0	#NAME?	#NAME?	0.1107	0.241869	no
yheF	6.02803	0	#NAME?	#NAME?	0.1137	0.247266	no
ytnI	1.82393	0	#NAME?	#NAME?	0.1249	0.265288	no
ylzJ	5.151	0	#NAME?	#NAME?	0.12815	0.268978	no
yrdD	9.18351	0	#NAME?	#NAME?	0.13735	0.282259	no
cotJA	0.947142	0	#NAME?	#NAME?	0.20445	0.366323	no
-	7.44669	0	#NAME?	#NAME?	0.20805	0.370993	no
uvrX	0.020734	0	#NAME?	0	1	1	no
acoA	0.05438	0	#NAME?	0	1	1	no
yclD	0.082766	0	#NAME?	0	1	1	no
bsdB	0.136977	0	#NAME?	0	1	1	no
yveA	0.140632	0	#NAME?	0	1	1	no
yjgB	0.151269	0	#NAME?	0	1	1	no
ssuA	0.158302	0	#NAME?	0	1	1	no
ssuC	0.159093	0	#NAME?	0	1	1	no
ykjA	0.164195	0	#NAME?	0	1	1	no
spolIIAE	0.170001	0	#NAME?	0	1	1	no
yteR	0.179684	0	#NAME?	0	1	1	no
ywjD	0.222961	0	#NAME?	0	1	1	no
yjmC	0.225028	0	#NAME?	0	1	1	no
xkdD	0.232652	0	#NAME?	0	1	1	no
spolIIAG	0.25858	0	#NAME?	0	1	1	no
yqaK	0.286497	0	#NAME?	0	1	1	no
yqbl	0.331496	0	#NAME?	0	1	1	no
yqbj	0.332054	0	#NAME?	0	1	1	no
ydhF	0.367591	0	#NAME?	0	1	1	no
ylyA	0.402053	0	#NAME?	0	1	1	no
yozT	0.408385	0	#NAME?	0	1	1	no
ydfQ	0.409924	0	#NAME?	0	1	1	no
yqcl	0.417329	0	#NAME?	0	1	1	no
yusN	0.427731	0	#NAME?	0	1	1	no
yezF	0.480224	0	#NAME?	0	1	1	no
ypuC	0.542124	0	#NAME?	0	1	1	no
yufS	0.572232	0	#NAME?	0	1	1	no
ynfE	0.612129	0	#NAME?	0	1	1	no
yqaF	0.735762	0	#NAME?	0	1	1	no
yqbN	0.849476	0	#NAME?	0	1	1	no
ydzH	0.849531	0	#NAME?	0	1	1	no
yxex	0.960448	0	#NAME?	0	1	1	no
yjzK	1.05168	0	#NAME?	0	1	1	no
yrkS	1.43997	0	#NAME?	0	1	1	no
yfmN	1.75735	0	#NAME?	0	1	1	no

