

Table B. Processed datasets for all experiments

SPOT SPECIFICITY: best representation of a gene fulfilling both criteria - > 97% sequence identity over  
 THRESHOLD: Top 90% of intensities in at least one channel, Fig1 and 2, top 95% in peroxide experime

SPOTTING	CHIP_ID	SPOT_SPI	GENE_OC	GENE_OC	STM_BES	GENE	Description	STY_BEST
1	CTRL001	none	0	0				
2	CHIP0785	STM/STY	1	1	STM1968	fliE	putative Flk	STY2176
3	CHIP0801	STM/STY	1	1	STM3172	sufI	suppressor	STY3349
4	CHIP0817	STM/STY	1	1	STM2021	cboQ	synthesis c	STY2224
5	CHIP2648	STM/STY	1	1	STM0086	kefC	CPA2 fami	STY0101
6	CHIP2672	STM/STY	1	1	STM0141	guaC	GMP reduc	STY0163
7	CHIP2666	STM/STY	1	1	STM0128	murG	UDP-N-acε	STY0148
8	CHIP2682	STM/STY	1	1	STM0161	kdgT	2-keto-3-dε	STY0183
9	CHIP2698	STM/STY	1	1	STM0183	folK	7,8-dihydr	STY0208
10	CHIP2714	STM/STY	1	1	STM0215	map	methionine	STY0238
11	CHIP2730	STM/STY	1	1	STM0247	abc	putative AE	STY0274
12	CHIP2746	STM/STY	1	0	STM1532		putative de	STY1531
13	CHIP3308	STM/STY	1	1	STM0685	nagE	Sugar Spe	STY0723
14	CHIP3324	STM/STY	1	1	STM0711	ybgI	putative cy	STY0751
15	CHIP0790	STM/STY	1	1	STM4456	mgtA	P-type ATF	STY4796
16	CHIP0806	STM/STY	1	1	STM2032	cbiD	synthesis c	STY2237
17	CHIP0822	STM/STY	1	1	STM1998	umuD	error-prone	STY2206
18	CHIP0846	STM/STY	1	1	STM1004	pncB	nicotinate ρ	STY1010
19	CHIP2583	STM/STY	1	1	STM3842	yidC	putative Pr	STY3938
20	CHIP2599	STM/STY	1	1	STM3867	atpA	membrane	STY3911
21	CHIP2631	STM/STY	1	1	STM0050		putative nit	STY0059
22	CHIP2655	STM/STY	1	0	STM0098		putative se	STY0113
23	CHIP3247	STM/STY	1	1	STM3334		putative cy	STY3514
24	CHIP3263	STM/STY	1	1	STM3370	cafA	RNase G	STY3550
25	CHIP3817	STM/STY	1	1	STM1098	hpaC	4-hydroxyp	STY1130
26	CHIP3833	STM/STY	1	1	STM1130		putative inr	STY1167
27	CHIP3849	STM/STY	1	1	STM1168	yceH	putative cy	STY1206
28	CHIP2425	STM/STY	1	1	STM3510	yhgH	putative an	STY4286
29	CHIP2441	STM specil	1	0	STM3532		putative dihydrodipicoli	
30	CHIP2457	STM/STY	1	1	STM3571	ftsY	GTPase dc	STY4240
31	CHIP3851	STM specil	1	0	STM1188		putative inner membra	
32	CHIP2427	STM/STY	1	1	STM3515	malT	transcriptio	STY4281
33	CHIP2443	STM/STY	1	1	STM3534	glgP	glycogen p	STY4276
34	CHIP2459	STM/STY	1	1	STM3573	yhhL	putative inr	STY4238
35	CHIP3724	STM/STY	1	1	STM4568	deoA	thymidine ρ	STY4919
36	CHIP4036	STM/STY	1	0	STM2723		Fels-2 proϕ	STY4628
37	CHIP2453	STM/STY	1	1	STM3556	ugpA	ABC super	STY4255
38	CHIP3718	STM/STY	1	1	STM4547	yjjQ	putative tra	STY4900
39	CHIP3734	STM/STY	1	1	STM4588	creB	response r	STY4935
40	CHIP4046	STM/STY	1	1	STM2738		Fels-2 proϕ	STY4644
41	CHIP4062	STM specil	1	0	STM2755		putative hexulose 6 ph	

42	CHIP4078	STM/STY	1	1	STM2776	iroE	putative hy	STY2893
43	CHIP4128	STM/STY	1	1	STM4103		putative cy	STY3766
44	CHIP4152	STM/STY	1	1	STM2858	hypE	putative hy	STY2980
45	CHIP4176	STM/STY	1	1	STM2927	surE	survival prc	STY3052
46	CHIP3432	STM/STY	1	1	STM0882	ybjF	putative tR	STY0915
47	CHIP3448	STM specil	1	0	STM0904		Fels-1 prophage	
48	CHIP3088	STM/STY	1	1	STM2489	dapA	dihydrodipi	STY2727
49	CHIP3442	STM specil	1	0	STM0898		Fels-1 prophage; redic	
50	CHIP3082	STM/STY	0	0				
51	CHIP3482	STM/STY	1	0	STM0954		putative inner membra	
52	CHIP3498	STM/STY	1	1	STM0983	ycaI	putative re	STY0984
53	CHIP3523	STM specil	1	0	STM1032		Gifsy-2 prophage	
54	CHIP4115	STM/STY	1	1	STM4077	yneA	putative AE	STY3793
55	CHIP4141	STM/STY	1	1	STM4119	ppc	phosphoen	STY3754
56	CHIP3597	STM/STY	1	1	STM4310		putative inr	STY4511
57	CHIP3429	STM/STY	1	1	STM0877	potF	ABC super	STY0910
58	CHIP3453	STM specil	1	0	STM0910		Fels-1 prophage	
59	CHIP3101	STM/STY	1	1	STM2523	gcpE	putative prc	STY2768
60	CHIP3117	STM/STY	1	1	STM2552		putative pe	STY2799
61	CHIP3487	STM/STY	1	1	STM0962	ycaJ	paral putati	STY0960
62	CHIP3127	STM/STY	1	1	STM2575		putative tra	STY2821
63	CHIP2960	STM/STY	1	1	STM1992	dcm	DNA cytosi	STY2200
64	CHIP2984	STM/STY	1	1	STM2270	rcsB	response r	STY2495
65	CHIP3696	STM/STY	1	1	STM4514	yjiH	putative inr	STY4870
66	CHIP2276	STM/STY	1	1	STM1108	hpaA	4-hydroxyp	STY1142
67	CHIP3026	STM/STY	1	1	STM2346		putative N	STY2576
68	CHIP0203	STM/STY	1	1	STM1956	fliA	sigma F (si	STY2164
69	CHIP0227	STM specil	1	0	STM0195	stfA	putative fimbrial subun	
70	CHIP2334	STM/STY	1	1	STM1166	yceL	putative M	STY1204
71	CHIP2358	STM/STY	1	1	STM1368		putative N	STY1755
72	CHIP3627	STM/STY	1	1	STM4376	yjfC	putative glt	STY4732
73	CHIP0269	STM/STY	1	1	STM2862	sitB	Salmonella	STY2984
74	CHIP2368	STM/STY	1	1	STM1451	gst	glutathionir	STY1671
75	CHIP2957	STM/STY	1	1	STM1988		putative cy	STY2195
76	CHIP2973	STM/STY	1	1	STM2068	yeeF	putative AF	STY2277
77	CHIP2997	STM/STY	0	0				
78	CHIP3013	STM/STY	1	1	STM2328	nuoA	NADH deh	STY2558
79	CHIP3663	STM/STY	1	1	STM4440		putative cy	STY4779
80	CHIP3679	STM specil	1	0	STM4488		putative integrase	
81	CHIP3695	STM/STY	1	1	STM4506		putative di	STY4861
82	CHIP3039	STM/STY	1	1	STM2370	pdxB	erythronate	STY2601
83	CHIP0216	STM/STY	1	1	STM1257		putative AE	STY1863
84	CHIP2315	STM/STY	1	1	STM1479	pntA	pyridine nu	STY1589
85	CHIP1333	STM/STY	1	1	STM0316	pepD	aminoacyl-	STY0361
86	CHIP1349	STM/STY	1	1	STM0164		putative tra	STY0186
87	CHIP1365	STM/STY	1	1	STM0213	dapD	2,3,4,5-tetr	STY0236
88	CHIP1389	STM/STY	1	1	STM0130	ddlB	D-alanine-I	STY0150
89	CHIP3906	STM/STY	1	1	STM1303	astC	succinylorn	STY1811
90	CHIP3922	STM/STY	1	1	STM1338	pheT	phenylalan	STY1772
91	CHIP3932	STM specil	1	0	STM1354	ydiQ	putative electron transf	
92	CHIP0525	STM/STY	1	1	STM2146	thiD	bifunctiona	STY2375
93	CHIP3972	STM/STY	1	1	STM1471	rstB	sensory his	STY1651

94	CHIP0565	STM/STY	1	1	STM1418	ssaQ	Secretion s	STY1702
95	CHIP1416	STM/STY	1	1	STM3863		putative pe	STY3915
96	CHIP1344	STM/STY	1	1	STM0281		putative cy	STY0304
97	CHIP1354	STM/STY	1	1	STM0219	frr	ribosome r	STY0242
98	CHIP1378	STM/STY	1	1	STM1982	rcaA	positive tra	STY2190
99	CHIP1490	STM/STY	1	1	STM2402	yfdZ	putative an	STY2642
100	CHIP1506	STM/STY	1	1	STM2317	nuoM	NADH deh	STY2547
101	CHIP3927	STM/STY	1	1	STM1349	pps	phosphoen	STY1761
102	CHIP0536	STM/STY	1	1	STM2871	prgK	cell invasio	STY2992
103	CHIP1541	STM/STY	1	1	STM2443	cysU	ABC super	STY2680
104	CHIP1565	STM/STY	1	1	STM0503	ybbM	putative Yb	STY0549
105	CHIP1042	STM/STY	1	1	STM4003	yihI	putative cy	STY3878
106	CHIP1989	STM/STY	1	1	STM4348	psd	phosphatid	STY4708
107	CHIP3153	STM specil	1	0	STM2609		Gifsy-1 prophage: simi	
108	CHIP3177	STM/STY	1	1	STM3184	yqiB	putative cy	STY3362
109	CHIP2063	STM/STY	1	1	STM3555	ugpE	ABC super	STY4256
110	CHIP3227	STM/STY	1	1	STM3290	argG	argininosuc	STY3470
111	CHIP1520	STM/STY	1	1	STM2349	yfcG	putative glt	STY2579
112	CHIP1568	STM/STY	1	1	STM0512	sfbC	putative bir	STY0560
113	CHIP1992	STM/STY	1	1	STM4396	ytfB	putative ce	STY4752
114	CHIP2008	STM/STY	1	1	STM4481	idnR	L-idonate r	STY4819
115	CHIP1602	STM/STY	1	1	STM2793	gabP	APC family	STY2913
116	CHIP2010	STM/STY	1	1	STM4511	yjiE	putative tra	STY4867
117	CHIP2026	STM/STY	1	1	STM4594	sthA	putative fir	STY4943
118	CHIP2042	STM/STY	1	1	STM3657		putative ou	STY4142
119	CHIP3206	STM/STY	1	0	STM3252	agaR	aga operon transcriptic	
120	CHIP3222	STM specil	1	0	STM3278		putative cytoplasmic pr	
121	CHIP0618	STM/STY	1	1	STM4106	katG	catalase; h	STY3760
122	CHIP0730	STM/STY	1	1	STM1824	pabB	p-aminobe	STY1954
123	CHIP0762	STM/STY	1	1	STM0548	fimF	putative fir	STY0595
124	CHIP1821	STM/STY	1	1	STM4027	rbn	tRNA proc	STY3851
125	CHIP1853	STM/STY	1	1	STM0630	crcB	high-copy c	STY0679
126	CHIP1885	STM/STY	1	1	STM3407	fmt	10-formylte	STY4390
127	CHIP0741	STM/STY	1	1	STM1244	pagD	PhoP regul	STY1880a
128	CHIP1800	STM/STY	1	1	STM4127	yjiC	putative tra	STY3747
129	CHIP1840	STM/STY	1	1	STM0690	citB	citrate utiliz	STY0728
130	CHIP1872	STM/STY	1	1	STM0732	sdhC	succinate c	STY0775
131	CHIP0590	STM/STY	1	1	STM0977	serC	3-phospho	STY0977
132	CHIP0718	STM/STY	1	1	STM0584	entD	enterocheli	STY0627
133	CHIP1891	STM/STY	1	1	STM3475	nirD	nitrite redu	STY4321
134	CHIP0121	STM/STY	1	1	STM4163	thiE	thiamin ph	STY3722
135	CHIP0137	STM/STY	1	1	STM3564	livK	ABC super	STY4248
136	CHIP4736	STM/STY	0	0	STM2778		pseudogene; frameshil	
137	CHIP1220	STM/STY	1	1	STM1623		putative ca	STY1441
138	CHIP0409	STM/STY	1	1	STM1172	flgM	anti-FlaA (a	STY1211
139	CHIP1278	STM/STY	1	1	STM3376	yhdH	putative ox	STY3556
140	CHIP1294	STM/STY	1	1	STM0033		putative 5'-	STY0040
141	CHIP4675	STM/STY	1	1	STM0083		putative inr	STY0096
142	CHIP4691	STM/STY	1	0	STM1250		putative cy	STY1873
143	CHIP0140	STM/STY	1	1	STM4021	yihS	putative isc	STY3857
144	CHIP3354	STM/STY	0	0	STM3352	oadA	putative so	STY0064
145	CHIP0166	STM/STY	1	1	STM0023	bcfC	fimbrial us	STY0026

146	CHIP0182	STM/STY	1	1	STM2043	pduG	Propanedic	STY2248
147	CHIP1225	STM/STY	1	1	STM4300	fumB	fumarase E	STY4499
148	CHIP1241	STM/STY	0	0				STY2138
149	CHIP0430	STM/STY	1	1	STM2502	ppx	exopolyphc	STY2743
150	CHIP0454	STM/STY	1	1	STM4263	yjcB	putative inr	STY4461
151	CHIP1283	STM/STY	1	1	STM2671	yfiR	putative pe	STY2858
152	CHIP1299	STM/STY	1	1	STM0062	citX2	putative cyf	STY0071
153	CHIP1315	STM/STY	1	1	STM3798	emrD	MFS family	STY3981
154	CHIP0017	STM/STY	1	1	STM3970	ubiE	S-adenosyl	STY3589
155	CHIP0033	STM/STY	1	1	STM3954	yigG	putative inr	STY3605
156	CHIP1656	STM/STY	1	1	STM2086	rfbU	LPS side c	STY2295
157	CHIP3052	STM/STY	1	1	STM2393	yfdC	putative tra	STY2625
158	CHIP1710	STM/STY	1	1	STM1816	minE	cell divisor	STY1946
159	CHIP1726	STM/STY	1	1	STM1736	ycaA	putative Ac	STY1315
160	CHIP1742	STM/STY	1	1	STM2982	gcvA	regulator o	STY3122
161	CHIP1758	STM/STY	1	1	STM2914		putative nu	STY3039
162	CHIP1774	STM/STY	1	1	STM4097		putative ou	STY3773
163	CHIP0925	STM/STY	1	1	STM0578	nfnB	dihydropter	STY0620
164	CHIP1776	STM/STY	1	1	STM4091	hslU	ATPase co	STY3779
165	CHIP0192	STM/STY	1	1	STM2053	pduS	Propanedic	STY2258
166	CHIP0030	STM/STY	1	1	STM3957	pldA	outer mem	STY3602
167	CHIP0054	STM/STY	1	1	STM3928	wecF	TDP-Fuc4l	STY3627
168	CHIP2289	STM/STY	1	1	STM1263		putative pe	STY1858
169	CHIP1731	STM/STY	1	1	STM3027	stdC	putative fir	STY3175
170	CHIP1747	STM/STY	1	1	STM2963		putative Mf	STY3102
171	CHIP0936	STM/STY	1	1	STM0430	phnR	2-aminoetr	STY0469
172	CHIP0960	STM/STY	1	1	STM3974	tatB	component	STY3585
173	CHIP4408	STM/STY	1	1	STM0516	allR	putative re	STY0564
174	CHIP4440	STM specil	1	0	STM0574		putative transport	prote
175	CHIP4434	STM/STY	1	1	STM0564		putative ox	STY0612
176	CHIP4458	STM/STY	1	1	STM0600	cstA	carbon sta	STY0644
177	CHIP1214	STM/STY	1	1	STM1614		putative PT	STY1450
178	CHIP2762	STM/STY	1	0	STM1556		putative Ne	STY1508
179	CHIP2786	STM/STY	1	1	STM1598	ydcR	putative re	STY1466
180	CHIP2810	STM/STY	1	1	STM1633		putative pe	STY1438
181	CHIP2812	STM/STY	1	1	STM1635		putative AE	STY1436
182	CHIP2932	STM/STY	1	1	STM1894	ruvB	Holliday jur	STY2102
183	CHIP4397	STM/STY	1	1	STM0492	ybaL	putative CF	STY0536
184	CHIP1153	STM/STY	1	1	STM0627	dcuC	DcuC famil	STY0676
185	CHIP1177	STM/STY	1	1	STM3769		putative ph	STY4016
186	CHIP4461	STM/STY	1	1	STM0603	ybdL	putative an	STY0647
187	CHIP4455	STM/STY	1	1	STM0596	entE	2,3-dihydr	STY0640
188	CHIP1211	STM/STY	1	1	STM2739		Fels-2 pro	STY4645
189	CHIP2863	STM/STY	1	1	STM1750	tdk	thymidine k	STY1301
190	CHIP2783	STM/STY	1	1	STM1595	srfC	ssrAB activ	STY1470
191	CHIP2815	STM/STY	1	1	STM1641	hrpA	helicase, A	STY1428
192	CHIP2831	STM/STY	1	1	STM1668		putative ou	STY1396
193	CHIP4665	STM/STY	1	1	STM4390		putative cyf	STY4746
194	CHIP4298	STM/STY	1	1	STM2660	clpB	ATP-deper	STY2849
195	CHIP4226	STM/STY	1	1	STM3024	yohM	putative inr	STY3169
196	CHIP4338	STM/STY	1	1	STM0381		putative inr	STY0413
197	CHIP4266	STM specil	1	0	STM3119		putative monoamine	o

198	CHIP4378	STM/STY	1	1	STM0459	ybaO	putative tra	STY0502
199	CHIP4612	STM/STY	1	1	STM3096	yqgE	putative tra	STY3249
200	CHIP2516	STM/STY	1	1	STM3692	lldP	LctP transp	STY4104
201	CHIP2556	STM/STY	1	1	STM3807	yidE	paral putati	STY3971
202	CHIP4213	STM/STY	1	1	STM2993	recD	exonucleas	STY3131
203	CHIP4229	STM/STY	1	1	STM3028	stdB	putative ou	STY3176
204	CHIP4349	STM/STY	1	1	STM0402		putative thi	STY0440
205	CHIP2479	STM/STY	1	1	STM3611	yhjH	putative Di	STY4192
206	CHIP2495	STM/STY	1	1	STM3651		putative ac	STY4151
207	CHIP2511	STM/STY	1	1	STM3682	selB	selenocyste	STY4114
208	CHIP2527	STM/STY	1	1	STM3729	radC	putative Di	STY4065
209	CHIP2543	STM/STY	1	1	STM3771		putative ph	STY4014
210	CHIP4496	STM/STY	1	1	STM0704	kdpC	P-type ATF	STY0745
211	CHIP1973	STM/STY	1	1	STM4564	yjjV	putative hy	STY4915
212	CHIP1606	STM/STY	1	1	STM2813	emrR	transcriptio	STY2939
213	CHIP1630	STM/STY	1	1	STM2130	baeS	sensory kir	STY2343
214	CHIP1646	STM/STY	1	1	STM2216	yejA	putative AE	STY2452
215	CHIP1662	STM/STY	1	1	STM2100	wcaL	putative gly	STY2310
216	CHIP1678	STM/STY	1	1	STM2165	yehZ	putative AE	STY2395
217	CHIP1640	STM/STY	1	1	STM2197		putative ph	STY2431
218	CHIP4540	STM specil	1	0	STM2230		putative peptidase	
219	CHIP1680	STM/STY	1	1	STM2177		putative flu	STY2407
220	CHIP1896	STM/STY	1	1	STM0933	ybjT	putative nu	STY0929
221	CHIP2104	STM/STY	1	1	STM3642	tag	3-methyl-a	STY4160
222	CHIP2120	STM/STY	1	1	STM3547		putative tra	STY4264
223	CHIP2098	STM/STY	1	1	STM3669	yiaL	putative cy	STY4129
224	CHIP2114	STM/STY	1	1	STM3580		putative inr	STY4231
225	CHIP2130	STM/STY	1	1	STM3339	nanA	N-acetyln	STY3520
226	CHIP2154	STM/STY	1	1	STM3238	yhaN	putative inr	STY3418
227	CHIP2170	STM/STY	1	1	STM3141		molybdenu	STY3312
228	CHIP1627	STM/STY	1	1	STM2852	hycB	hydrogena	STY2974
229	CHIP2229	STM/STY	1	1	STM3203	ygiM	putative S	STY3382
230	CHIP0362	STM/STY	1	1	STM1401	sseD	Secretion s	STY1719
231	CHIP0378	STM/STY	1	1	STM1115	scsC	Suppressic	STY1151
232	CHIP3353	STM specil	1	0	STM0765		putative cation transpo	
233	CHIP3401	STM/STY	1	1	STM0835		putative Mr	STY0876
234	CHIP0307	STM/STY	1	1	STM1387	ttrR	Tetrathion	STY1733
235	CHIP3356	STM/STY	1	1	STM0772	gpmA	phosphogly	STY0804
236	CHIP3388	STM/STY	1	1	STM0816	ybhS	putative AE	STY0851
237	CHIP3420	STM/STY	1	0	STM0861	ylil	putative de	STY0894
238	CHIP2201	STM/STY	1	1	STM3316	yrbl	putative pr	STY3495
239	CHIP0334	STM/STY	1	1	STM1973	fliJ	flagellar fli	STY2181
240	CHIP2241	STM/STY	1	1	STM3140	yghU	putative gl	STY3311
241	CHIP3383	STM/STY	1	0	STM0809		putative inner membra	
242	CHIP3415	STM specil	1	0	STM0856		putative electron transf	
243	CHIP3648	STM specil	1	0	STM4421		putative NAD-depende	
244	CHIP3664	STM/STY	1	1	STM4441		putative cy	STY4780
245	CHIP4362	STM/STY	1	1	STM0436	yajR	putative M	STY0475
246	CHIP3649	STM specil	1	0	STM4422		putative cytoplasmic pr	
247	CHIP4459	STM/STY	1	1	STM0601	ybdD	putative cy	STY0645
248	CHIP4413	STM/STY	1	0	STM0521	ybbV	putative cytoplasmic pr	
249	CHIP4430	STM/STY	1	0	STM0556		putative tra	STY0603

250	CHIP4446	STM/STY	1	1	STM0581	putative re	STY0624
251	CHIP4447	STM/STY	1	1	STM0582 ybdJ	putative inr	STY0625
252	CHIP1721	STM/STY	1	1	STM1787	hydrogena	STY1914
253	CHIP4632	STM specif	1	0	STM0334	putative cytoplasmic pr	
254	CHIP4650	STM specif	1	0	STM2507	putative inner membra	
255	CHIP4651	STM/STY	1	1	STM2279 yfaE	putative fer	STY2508
256	CHIP2165	STM/STY	1	1	STM3151 yghW	putative cy	STY3323
257	CHIP1124	STM/STY	1	1	STM0885	putative inr	STY0918
258	CHIP1148	STM/STY	1	1	STM0614 ybdQ	putative Ur	STY0662
259	CHIP2547	STM/STY	1	1	STM3778	putative he	STY4005
260	CHIP2524	STM/STY	1	1	STM3708 tdh	threonine 3	STY4087
261	CHIP2548	STM/STY	1	1	STM3779	putative ph	STY4004
262	CHIP2557	STM/STY	1	1	STM3808 ibpB	small heat	STY3970
263	CHIP2559	STM/STY	1	1	STM3810 yidQ	putative ou	STY3968
264	CHIP2429	STM specif	1	0	STM3517	putative DNA-damage-	
265	CHIP4502	STM/STY	1	0	STM1120 ycdF	pseudogene; in-frame	
266	CHIP4602	STM/STY	1	1	STM4070	putative cy	STY3800
267	CHIP4658	STM/STY	1	0	STM4124 oxyS	stable RNA induced by	
268	CHIP4667	STM/STY	1	1	STM4520	putative cy	STY4878
269	CHIP4629	STM/STY	1	0	STM0467 ffs	signal recognition parti	
270	CHIP4638	STM/STY	1	1	STM1464 malY	pseudogen	STY1657a
271	CHIP3395	STM/STY	1	1	STM0823 ybiJ	putative pe	STY0860
272	CHIP3288	STM/STY	1	1	STM0649	putative hy	STY0700
273	CHIP2944	STM/STY	1	1	STM1934	putative ou	STY2142
274	CHIP3028	STM/STY	1	1	STM2350 yfch	putative su	STY2580
275	CHIP0518	STM specif	1	0	PSLT045 rlgA	putative resolvase	
276	CHIP1029	STM specif	0	0	PSLT049	putative DNA polymera	
277	CHIP0168	STM specif	1	0	PSLT076 traY	conjugative transfer: or	
278	CHIP0956	STM specif	1	0	PSLT030	putative cytoplasmic pr	
279	CHIP4620	STM specif	1	0	PSLT047	putative cytoplasmic pr	
280	CHIP1075	STM specif	1	0	PSLT060	putative cytoplasmic pr	
281	CHIP1054	STM specif	0	0	PSLT020	hypothetical protein	
282	CHIP0500	none	0	0	R460023 tral		
283	CHIP4777	STM specif	0	0			
284	CHIP4781	STM/STY	1	1	STM2293	putative nu	STY2523
285	CHIP4785	STM/STY	0	0			
286	CHIP4789	STM/STY	0	0			
287	CHIP4793	STM/STY	0	0			
288	CHIP4797	STM/STY	0	0			
289	CHIP4909	STM/STY	0	0			
290	CHIP4925	STY specif	0	1			STY0307
291	CHIP4941	STY specif	0	1			STY0349
292	CHIP4957	STY specif	0	1			STY1017
293	CHIP4973	STY specif	0	1			STY1044
294	CHIP4988	STY specif	0	1			STY1060
295	CHIP4935	STM/STY	0	0			
296	CHIP4951	STM/STY	0	1			STY0793
297	CHIP4967	STM/STY	0	0			
298	CHIP5077	STY specif	0	1			STY2006
299	CHIP5090	STY specif	0	1			STY2029
300	CHIP5199	STY specif	0	1			STY3191
301	CHIP4945	STM/STY	0	1			STY0477

302	CHIP4961	STY specif	0	1		STY1026
303	CHIP4977	STY specif	0	0		STY1048
304	CHIP4992	STY specif	0	1		STY1064
305	CHIP5193	STY specif	0	1		STY3089
306	CHIP5207	STY specif	0	1		STY3288
307	CHIP4963	STY specif	0	1		STY1028
308	CHIP4979	STY specif	0	0		STY1050
309	CHIP4994	STY specif	0	1		STY1066
310	CHIP5102	STY specif	0	1		STY2042
311	CHIP5117	STY specif	0	1		STY2058
312	CHIP5223	STY specif	0	1		STY3659
313	CHIP5424	STY specif	0	1		STY4838
314	CHIP5365	STM/STY	0	0		
315	CHIP5298	STY specif	0	1		STY4522
316	CHIP5395	STY specif	0	1		STY4669
317	CHIP5410	STY specif	0	1		STY4822
318	CHIP5425	STY specif	0	1		STY4842
319	CHIP5331	STY specif	0	1		STY4570
320	CHIP5347	STY specif	0	1		STY4587
321	CHIP5362	STY specif	0	1		STY4609
322	CHIP5381	STY specif	0	1		STY4649
323	CHIP5392	STY specif	0	1		STY4666
324	CHIP5332	STY specif	0	1		STY4571
325	CHIP2560	STM/STY	1	1	STM3811 yidR	putative cyf STY3967
326	CHIP2576	STM/STY	1	1	STM3831 yidA	putative hy STY3947
327	CHIP2592	STM/STY	1	1	STM3854 pstB	ABC super STY3929
328	CHIP0825	STM/STY	1	1	STM3790 uhpA	response r1 STY3992
329	CHIP3232	STM/STY	1	1	STM3302 yhbE	pseudogen STY3481
330	CHIP3248	STM/STY	1	0	STM3337 nanE	putative Mε STY3518
331	CHIP3242	STM/STY	1	1	STM3318 yhbN	putative AE STY3497
332	CHIP3258	STM/STY	1	1	STM3356	putative ca STY3536
333	CHIP3274	STM specif	1	0	STM3389 envR	transcriptional repress
334	CHIP3290	STM/STY	1	1	STM0651	putative pe STY0702
335	CHIP3306	STM/STY	1	1	STM0683 nagA	N-acetylglu STY0721
336	CHIP3322	STM/STY	1	0	STM0705 kdpB	P-type ATPase, high-a
337	CHIP2740	STM/STY	1	1	STM1517 ydeD	putative pe STY1543
338	CHIP0774	STM specif	1	0	STM3638 lpfC	long polar fimbrial oute
339	CHIP2581	STM/STY	1	1	STM3840 rnpA	RNase P, ϕ STY3939
340	CHIP2597	STM/STY	1	0	STM3859	putative shikimate / qui
341	CHIP2613	STM/STY	1	1	STM0011 yaal	putative pe STY0011
342	CHIP0854	STM/STY	1	1	STM1246 pagC	PhoP regul STY1878
343	CHIP0800	STM/STY	1	1	STM2640 rpoE	sigma E (si STY2833
344	CHIP2607	STM/STY	1	1	STM3885 rbsK	ribokinase STY3892
345	CHIP2639	STM/STY	1	1	STM0068 caiF	transcriptio STY0078
346	CHIP2663	STM/STY	1	1	STM0122 ftsI	division spε STY0142
347	CHIP2679	STM/STY	1	1	STM0157 yacH	putative ou STY0180
348	CHIP3271	STM/STY	1	1	STM3386 yhdJ	putative mε STY3566
349	CHIP2377	STM/STY	1	1	STM1491	ABC-type ϕ STY1573
350	CHIP2393	STM/STY	1	1	STM3449 yheL	putative ox STY4349
351	CHIP3857	STM/STY	1	1	STM1201 holB	DNA polymr STY1240
352	CHIP3873	STM/STY	1	1	STM1229 ycfD	putative cyf STY1269
353	CHIP3889	STM/STY	1	1	STM1274 yeaQ	putative inr STY1846

354	CHIP4002	STM/STY	1	1	STM2102	wzxC	putative ex	STY2314
355	CHIP2411	STM/STY	1	1	STM3488	hofQ	putative tra	STY4308
356	CHIP3875	STM/STY	1	1	STM1235	ymfB	putative Mt	STY1275
357	CHIP3891	STM/STY	1	1	STM1276		putative pe	STY1842
358	CHIP4004	STM/STY	1	1	STM2105	manC	mannose-1	STY2317
359	CHIP4020	STM/STY	1	1	STM2134		putative inr	STY2347
360	CHIP4052	STM specil	1	0	STM2745		putative inner membra	
361	CHIP3901	STM/STY	1	1	STM1290	gapA	glyceraldel	STY1825
362	CHIP4014	STM/STY	1	1	STM2123	yegE	putative P <sup>A</sup>	STY2336
363	CHIP3742	STM/STY	1	1	STM0008	mog	putative m $\alpha$	STY0008
364	CHIP3758	STM/STY	1	1	STM0287		putative pe	STY0316
365	CHIP3774	STM/STY	1	1	STM0314		pseudogen	STY0359
366	CHIP3790	STM specil	0	0	STM1047		Gifsy-2 prophage; prot	
367	CHIP4136	STM specil	1	0	STM4114	pfID	putative pyruvate form:	
368	CHIP3584	STM/STY	1	0	STM4281	nrfE	formate-de	STY4479
369	CHIP4184	STM specil	1	0	STM2939	ygCH	putative cytoplasmic pr	
370	CHIP3056	STM/STY	1	1	STM2404		putative ch	STY2645
371	CHIP3072	STM/STY	1	1	STM2448	yfeZ	putative inr	STY2685
372	CHIP3472	STM specil	1	0	STM0929		putative inner membra	
373	CHIP3450	STM specil	1	0	STM0906		Fels-1 prophage	
374	CHIP3466	STM specil	0	0				
375	CHIP3106	STM/STY	1	1	STM2530		putative an	STY2775
376	CHIP3122	STM/STY	1	1	STM2563	yfhG	putative tra	STY2810
377	CHIP4099	STM/STY	1	1	STM4030		putative cy <sup>I</sup>	STY3848
378	CHIP3547	STM specil	1	0	STM4205		putative phage glycosy	
379	CHIP4149	STM/STY	1	1	STM2854	hypA	guanine-nu	STY2976
380	CHIP4181	STM/STY	1	1	STM2935	cysD	ATP-sulfur	STY3060
381	CHIP3437	STM specil	1	0	STM0893		Fels-1 prophage; putat	
382	CHIP3077	STM/STY	1	1	STM2473	talA	transaldola	STY2710
383	CHIP3485	STM/STY	1	1	STM0958	trxB	thioredoxin	STY0956
384	CHIP3501	STM/STY	1	1	STM0988	kdsB	CTP:CMp-	STY0990
385	CHIP3495	STM/STY	1	1	STM0975	ycaO	putative cy <sup>I</sup>	STY0975
386	CHIP3135	STM specil	0	0	STM2591		Gifsy-1 prophage: simi	
387	CHIP3640	STM/STY	1	1	STM4406	ytfK	putative cy <sup>I</sup>	STY4764
388	CHIP2992	STM/STY	1	1	STM2283	glpT	MFS family	STY2512
389	CHIP3024	STM/STY	1	1	STM2343		putative cy <sup>I</sup>	STY2573
390	CHIP0201	STM/STY	1	1	STM1923	motA	proton con <sup>I</sup>	STY2132
391	CHIP3034	STM/STY	1	1	STM2364	dedD	paral putati	STY2595
392	CHIP2286	STM/STY	1	1	STM1219	ycfW	ABC trans $\gamma$	STY1259
393	CHIP2310	STM/STY	1	1	STM1426	ribE	riboflavin s	STY1696
394	CHIP2342	STM/STY	1	0	STM1237	ymfC	putative rib	STY1277
395	CHIP0283	STM/STY	1	1	STM0025	bcfE	fimbrial sut	STY0030
396	CHIP2955	STM/STY	1	1	STM1986	yedP	putative hy	STY2193
397	CHIP2352	STM/STY	1	1	STM1325	ydiZ	putative cy <sup>I</sup>	STY1786
398	CHIP3621	STM/STY	1	1	STM4368	vacB	putativevea e	STY4725
399	CHIP3637	STM/STY	1	1	STM4401	ytfG	paral putati	STY4759
400	CHIP3653	STM specil	1	0	STM4426	srfJ	activated by transcripti	
401	CHIP3677	STM specil	1	0	STM4485	idnK	D-gluconate kinase, th	
402	CHIP3693	STM/STY	1	1	STM4502		putative cy <sup>I</sup>	STY4858
403	CHIP2991	STM/STY	1	1	STM2281		putative tra	STY2510
404	CHIP3007	STM specil	1	0	STM2315	yfbK	putative von Willebranc	
405	CHIP3023	STM/STY	1	1	STM2342		putative inr	STY2572



406	CHIP0200	STM/STY	1	1	STM1924	flhC	regulator o	STY2133
407	CHIP0224	STM/STY	1	1	STM2701		Fels-2 pro	STY4607
408	CHIP0240	STM/STY	1	1	STM2467	eutT	putative co	STY2703
409	CHIP1429	STM/STY	1	1	STM2654	kgtP	MFS family	STY2847
410	CHIP1445	STM/STY	1	1	STM0361		cytochrom	STY0393
411	CHIP1373	STM/STY	1	1	STM2017	cobS	cobalamin	STY2220
412	CHIP1485	STM/STY	1	1	STM4220	lysC	aspartokin	STY4416
413	CHIP0483	STM/STY	1	1	STM2818	gshA	gamma-glt	STY2944
414	CHIP3930	STM specil	1	0	STM1352	ydiS	flavoprotein	
415	CHIP0509	STM/STY	1	1	STM1979	fliP	flagellar bic	STY2187
416	CHIP0533	STM/STY	1	1	STM2874	prgH	cell invasio	STY2995
417	CHIP0549	STM/STY	1	1	STM1913	flhA	flagellar bic	STY2122
418	CHIP3996	STM/STY	1	1	STM2093	rfbl	LPS side c	STY2303
419	CHIP1424	STM/STY	1	1	STM3881	rbsD	D-ribose hi	STY3897
420	CHIP1352	STM/STY	1	1	STM0217	tsf	protein cha	STY0240
421	CHIP1450	STM/STY	1	1	STM0384	psiF	induced by	STY0417
422	CHIP1474	STM/STY	1	1	STM4193	yjbC	putative ps	STY4410
423	CHIP1402	STM/STY	1	1	STM0074	caiT	putative BC	STY0084
424	CHIP3911	STM/STY	1	1	STM1309		putative nu	STY1804
425	CHIP3935	STM specil	1	0	STM1357	ydiF	putative acetyl-CoA:ac	
426	CHIP3967	STM/STY	1	1	STM1463	add	adenosine	STY1658
427	CHIP1002	STM/STY	0	0	STM1017		Gifsy-2 pro	STY1025
428	CHIP1026	STM/STY	1	1	STM4473	yjgM	putative ac	STY4812
429	CHIP1589	STM/STY	1	1	STM0542	folD	bifunctiona	STY0588
430	CHIP3137	STM specil	1	0	STM2593		Gifsy-1 prophage: simi	
431	CHIP2021	STM/STY	1	1	STM4565	yjjW	pyruvate fo	STY4916
432	CHIP2037	STM/STY	1	1	STM3701	secB	molecular	STY4094
433	CHIP2071	STM/STY	1	1	STM3509	bioH	putative hy	STY4287
434	CHIP0965	STM specil	1	0	STM4157		putative cytoplasmic pr	
435	CHIP0981	STM/STY	1	1	STM1774	sirC	Regulation	STY1899
436	CHIP1584	STM/STY	1	1	STM0513	ybbB	putative AT	STY0561
437	CHIP3140	STM specil	1	0	STM2596		Gifsy-1 prophage: simi	
438	CHIP3156	STM specil	0	0	STM1028		Gifsy-2 prophage; lyso:	
439	CHIP1994	STM/STY	1	1	STM4400	ytfF	putative ca	STY4758
440	CHIP3158	STM specil	0	0				
441	CHIP3174	STM/STY	1	1	STM2655		putative cy	STY2848
442	CHIP3190	STM/STY	1	1	STM3206	folB	dihydroneo	STY3385
443	CHIP2066	STM/STY	1	1	STM3535	glgA	glycogen s	STY4275
444	CHIP2082	STM/STY	1	1	STM3738	yigC	putative inr	STY4056
445	CHIP0714	STM/STY	1	1	STM2548	asrA	anaerobic	STY2794
446	CHIP0642	STM/STY	1	1	STM1203	ptsG	Sugar Spe	STY1242
447	CHIP1797	STM/STY	1	1	STM4001	yihA	putative G	STY3880
448	CHIP1829	STM/STY	1	1	STM0831	dps	stress resp	STY0870
449	CHIP1861	STM/STY	1	1	STM0802	moaA	molybdopt	STY0836
450	CHIP0579	STM/STY	1	1	STM1421	ssaT	Secretion	STY1699
451	CHIP0757	STM/STY	1	1	STM2454	eutR	putative re	STY2691
452	CHIP1808	STM/STY	1	1	STM4074	ego	putative AE	STY3796
453	CHIP1848	STM/STY	1	1	STM0642	ybeB	putative AC	STY0693
454	CHIP1880	STM/STY	1	1	STM0267		putative cy	STY0288
455	CHIP0694	STM/STY	1	1	STM2073	hisC	histidinol pl	STY2282
456	CHIP0630	STM/STY	1	1	STM1696	sapF	ABC super	STY1355
457	CHIP0097	STM/STY	1	1	STM0385	yaiC	putative di	STY0418

458	CHIP4704	STM/STY	1	1	STM1810	putative cy	STY1940	
459	CHIP4720	STM/STY	1	0	STM2132	pseudogene; frameshil		
460	CHIP0161	STM/STY	1	1	STM0669	phoL	putative ph	STY0715
461	CHIP1228	STM/STY	1	1	STM4289	phnA	putative alk	STY4488
462	CHIP1244	STM/STY	1	1	STM1908	yecM	putative cy	STY2116
463	CHIP0451	STM/STY	1	1	STM4261		putative inr	STY4459
464	CHIP0467	STM/STY	1	1	STM3717	rfaJ	UDP-D-glu	STY4078
465	CHIP0100	STM/STY	1	1	STM1855	sopE2	TypeIII-sec	STY1987
466	CHIP0124	STM/STY	1	1	STM4167	hemE	uroporphyr	STY3718
467	CHIP0156	STM/STY	1	1	STM3866	atpG	membrane	STY3912
468	CHIP0172	STM/STY	1	1	STM2267	ompC	outer mem	STY2493
469	CHIP3385	STM/STY	1	1	STM0812	ybhO	cardiolipin	STY0847
470	CHIP4356	STM/STY	1	1	STM0415	ybaD	putative tra	STY0453
471	CHIP0398	STM/STY	1	1	STM4055	sodA	superoxide	STY3816
472	CHIP0414	STM/STY	1	1	STM2063	phsC	Hydrogen ε	STY2269
473	CHIP1265	STM/STY	1	1	STM1690	pspA	phage shor	STY1371
474	CHIP1289	STM/STY	1	1	STM2681	grpE	molecular c	STY2868
475	CHIP0456	STM/STY	1	1	STM3423	rpsE	30S riboso	STY4375
476	CHIP0472	STM/STY	1	1	STM3723	rfaQ	lipopolysac	STY4071
477	CHIP0001	STM/STY	1	1	STM3987	hemG	protoporph	STY3573
478	CHIP0461	STM/STY	1	1	STM2583	lepA	GTP-bindir	STY2829
479	CHIP0041	STM/STY	1	1	STM3946	yifL	putative ou	STY3613
480	CHIP0065	STM/STY	1	1	STM3917	rho	transcriptio	STY3638
481	CHIP0867	STM/STY	1	1	STM1977	fliN	flagellar bic	STY2185
482	CHIP0883	STM/STY	1	1	STM1802	dadX	alanine rac	STY1930
483	CHIP0899	STM/STY	1	1	STM2384	aroC	chorismate	STY2616
484	CHIP0915	STM/STY	1	1	STM2324	nuoF	NADH deh	STY2554
485	CHIP0931	STM/STY	1	1	STM3733	pyrE	orotate phc	STY4061
486	CHIP0947	STM/STY	1	1	STM2700		Fels-2 proç	STY4606
487	CHIP1760	STM/STY	1	1	STM2890	spaP	surface pre	STY3013
488	CHIP1784	STM/STY	1	1	STM4046	rhaA	L-rhamnos	STY3827
489	CHIP0014	STM/STY	1	1	STM3973	tatA	component	STY3586
490	CHIP0852	STM/STY	1	1	STM3174	parC	DNA topoiε	STY3351
491	CHIP1518	STM/STY	1	1	STM2409	nupC	NUP family	STY2650
492	CHIP0078	STM/STY	1	1	STM3901	ilvG	acetolactat	STY3656
493	CHIP0904	STM/STY	1	1	STM0101	araD	L-ribulose-!	STY0118
494	CHIP1755	STM/STY	1	0	STM2933	cysC	adenosine	STY3058
495	CHIP1771	STM/STY	1	1	STM2921		putative fla	STY3046
496	CHIP1795	STM/STY	1	1	STM4010		putative hy	STY3870
497	CHIP4416	STM/STY	1	1	STM0525	glxK	glycerate k	STY0573
498	CHIP1180	STM/STY	0	0	STM0965	dmsB	anaerobic c	STY0963
499	CHIP4442	STM specil	1	0	STM0576		putative transport prote	
500	CHIP1198	STM/STY	1	1	STM1637		putative inr	STY1434
501	CHIP2850	STM/STY	1	1	STM1714	topA	DNA topoiε	STY1336
502	CHIP2770	STM specil	1	0	STM1568	fdnI	formate dehydrogenas	
503	CHIP2890	STM/STY	1	1	STM1817	rnd	RNase D, ρ	STY1947
504	CHIP2818	STM/STY	1	1	STM1647	ldhA	fermentativ	STY1422
505	CHIP2916	STM/STY	1	1	STM1864		putative inr	STY2002
506	CHIP2836	STM/STY	1	1	STM1674		putative ba	STY1390
507	CHIP1137	STM/STY	1	1	STM1895	ruvA	Holliday jur	STY2103
508	CHIP4421	STM/STY	1	1	STM0534	purE	phosphorib	STY0582
509	CHIP4445	STM/STY	1	1	STM0580		putative reç	STY0622

510	CHIP1201	STM/STY	1	1	STM1654	ydaO	putative AT	STY1412
511	CHIP1195	STM/STY	1	1	STM1583		putative cy	STY1482
512	CHIP4479	STM/STY	1	1	STM0343		putative Di	STY0376
513	CHIP2871	STM/STY	1	1	STM1769	ychn	putative AC	STY1283
514	CHIP2791	STM/STY	1	1	STM1606		putative be	STY1458
515	CHIP2919	STM specil	1	0	STM1871		putative phage integras	
516	CHIP2935	STM/STY	1	1	STM1898	ruvC	Holliday jur	STY2106
517	CHIP2553	STM/STY	1	1	STM3802	dsdA	D-serine dε	STY3977
518	CHIP4210	STM/STY	1	1	STM2987	ygdL	paral putati	STY3127
519	CHIP4322	STM specil	1	0	STM2705		Fels-2 prophage	
520	CHIP4250	STM specil	1	0	STM3084		putative regulatory prot	
521	CHIP4274	STM/STY	1	0	STM3133		putative an	STY3303
522	CHIP4578	STM/STY	1	1	STM3914	rhIB	putative he	STY3640
523	CHIP2500	STM/STY	1	1	STM3661	xylA	D-xylose is	STY4137
524	CHIP4636	STM/STY	1	0	STM1186		pseudogen	STY1226a
525	CHIP4197	STM/STY	1	1	STM2968	yqcD	putative G	STY3107
526	CHIP4309	STM/STY	1	1	STM2687	yfjG	putative Ol	STY2873
527	CHIP4237	STM/STY	1	1	STM3053	gcvP	glycine cle	STY3209
528	CHIP4261	STM/STY	1	1	STM3106	ansB	periplasmic	STY3259
529	CHIP4599	STM/STY	1	1	STM4131	murl	glutamate i	STY3743
530	CHIP4615	STM/STY	1	1	STM3109	yggH	putative S-	STY3264
531	CHIP4631	STM/STY	1	0	STM0618	citT	DASS fami	STY0667
532	CHIP4647	STM/STY	0	0				STY2447
533	CHIP1604	STM/STY	1	1	STM2797		putative re	STY2917
534	CHIP4504	STM/STY	1	1	STM1691	pspF	transcriptio	STY1370
535	CHIP1981	STM/STY	1	1	STM3039	idi	isopenteny	STY3195
536	CHIP4490	STM/STY	1	1	STM0365	yahN	paral putati	STY0397
537	CHIP4514	STM/STY	1	1	STM3653		putative ac	STY4148
538	CHIP4530	STM/STY	1	1	STM2202	yeiH	putative inr	STY2437
539	CHIP4546	STM specil	1	0	STM2237		putative inner membra	
540	CHIP4562	STM/STY	1	1	STM2159	yehU	paral putati	STY2389
541	CHIP4524	STM/STY	1	1	STM2194	yeiG	putative es	STY2428
542	CHIP1664	STM/STY	1	1	STM2106	wcal	putative gly	STY2318
543	CHIP4564	STM/STY	1	1	STM2164	yehY	putative AE	STY2394
544	CHIP2088	STM/STY	1	1	STM3694	lldD	L-lactate dε	STY4102
545	CHIP1920	STM/STY	1	1	STM3440	rplC	50S riboso	STY4358
546	CHIP1936	STM/STY	1	1	STM4358	amiB	N-acetylmt	STY4715
547	CHIP1914	STM/STY	1	1	STM3433	rplP	50S riboso	STY4365
548	CHIP1930	STM/STY	1	1	STM3038		putative mε	STY3194
549	CHIP1946	STM/STY	1	1	STM4380	yjfP	putative hy	STY4736
550	CHIP1970	STM/STY	1	1	STM4548	bglJ	transcriptio	STY4901
551	CHIP1986	STM/STY	1	1	STM4333	yjeK	putative an	STY4693
552	CHIP1635	STM/STY	1	1	STM2156	yehR	putative lip	STY2385
553	CHIP0346	STM/STY	1	1	STM0666	Int	apolipoprot	STY0711
554	CHIP2253	STM/STY	1	1	STM3092	sprT	putative cy	STY3245
555	CHIP2269	STM/STY	1	1	STM1075	helD	DNA helica	STY1097
556	CHIP3361	STM/STY	1	1	STM0781	modA	ABC super	STY0814
557	CHIP3409	STM/STY	1	1	STM0849	yliB	putative AE	STY0888
558	CHIP2198	STM/STY	1	1	STM3323	yhbJ	putative P-	STY3502
559	CHIP3364	STM/STY	1	1	STM0786	ybhC	putative pe	STY0819
560	CHIP3396	STM/STY	1	1	STM0826	ybiN	putative SA	STY0863
561	CHIP2185	STM/STY	1	1	STM3054	gcvH	glycine cle	STY3210

562	CHIP0318	STM/STY	1	1	STM0263	rnhA	RNase HI, STY0284
563	CHIP2225	STM/STY	1	1	STM3223	ygjR	putative de STY3403
564	CHIP0358	STM/STY	1	1	STM1397	sseA	Secretion s STY1723
565	CHIP3391	STM/STY	1	1	STM0819	ybiH	putative tra STY0854
566	CHIP3423	STM/STY	1	1	STM0866	mdfA	multidrug tr STY0899
567	CHIP4353	STM/STY	1	1	STM0409		hypotheticæ STY0447
568	CHIP4306	STM/STY	1	0	STM2682		putative cytoplasmic pr
569	CHIP3688	STM specil	1	0	STM4497		putative cytoplasmic pr
570	CHIP3706	STM/STY	1	1	STM4528		putative inr STY4886
571	CHIP3600	STM/STY	1	1	STM4318		putative ac STY4518
572	CHIP3545	STM specil	1	0	STM4203		putative phage baseplæ
573	CHIP3562	STM/STY	1	1	STM4222	yjbE	putative ou STY4418
574	CHIP3539	STM specil	1	0	STM4197		putative inner membra
575	CHIP3532	STM/STY	1	1	STM4181	yjaB	putative ac STY4399
576	CHIP0787	STM/STY	1	1	STM2016	cobT	nicotinate-r STY2219
577	CHIP4051	STM specil	1	0	STM2744		putative cytoplasmic pr
578	CHIP4044	STM specil	1	0	STM2735		Fels-2 prophage: hypo
579	CHIP4045	STM/STY	1	1	STM2737		Fels-2 proç STY4643
580	CHIP2145	STM/STY	1	1	STM3283	rpsO	30S riboso STY3464
581	CHIP2188	STM/STY	1	1	STM3047	ygfY	putative cy/ STY3203
582	CHIP2209	STM/STY	1	1	STM3259		PTS family STY3442
583	CHIP1194	STM/STY	1	1	STM1591	ydcZ	putative inr STY1474
584	CHIP1139	STM/STY	1	1	STM1534		putative hy STY1529
585	CHIP1219	STM/STY	1	1	STM1611	rimL	acetyl trans STY1453
586	CHIP1274	STM/STY	1	1	STM3392	yhdV	putative ou STY3572
587	CHIP1381	STM/STY	1	1	STM0078	fixX	putative fer STY0088
588	CHIP3988	STM/STY	1	1	STM1500	ynfD	putative ou STY1563
589	CHIP3120	STM/STY	1	1	STM2561	glnB	regulatory   STY2808
590	CHIP3097	STM/STY	0	0			
591	CHIP3075	STM/STY	1	1	STM2452		putative inr STY2689
592	CHIP3124	STM/STY	1	0	STM2566		putative periplasmic pr
593	CHIP3093	STM/STY	1	1	STM2495	yfgD	putative ar: STY2736
594	CHIP3111	STM/STY	1	1	STM2538	fdx	[2FE-2S] fe STY2784
595	CHIP3332	STM/STY	1	1	STM0724		putative gly STY0765
596	CHIP3281	STM/STY	1	1	STM0636	ybeD	putative cy/ STY0687
597	CHIP3000	STM/STY	1	1	STM2303		putative inr STY2533
598	CHIP0769	STM specil	1	0	PSLT048	tlpA	alpha-helical coiled coi
599	CHIP0979	STM specil	1	0	PSLT026		putative periplasmic pr
600	CHIP1037	STM specil	1	0	PSLT042		putative integrase prote
601	CHIP0424	STM/STY	1	0	PSLT012	orf7	putative bacterial regul
602	CHIP0426	STM/STY	0	1	PSLT007		putative ou STY4846
603	CHIP0422	STM specil	1	0	PSLT013	pefl	plasmid-encoded fimbr
604	CHIP1115	STM specil	0	0	PSLT107		putative cytoplasmic pr
605	CHIP1088	STM specil	1	0	PSLT074	finP	antisense RNA determ
606	CHIP1012	none	0	0	R460002		
607	CHIP4778	STM specil	0	0			
608	CHIP4782	STM/STY	0	0			
609	CHIP4786	STM/STY	0	0			
610	CHIP4790	STM/STY	0	0			
611	CHIP4794	STM/STY	0	0			
612	CHIP4798	STM/STY	0	0			
613	CHIP5004	STM/STY	0	1			STY1255

614	CHIP5020	STY specif	0	1		STY1595
615	CHIP5036	STY specif	0	1		STY1612
616	CHIP5051	STY specif	0	1		STY1628
617	CHIP5067	STM/STY	0	1		STY1853
618	CHIP4996	STY specif	0	1		STY1068
619	CHIP5030	STY specif	0	1		STY1606
620	CHIP5046	STY specif	0	1		STY1622
621	CHIP5061	STY specif	0	1		STY1643
622	CHIP4990	STY specif	0	1		STY1062
623	CHIP5098	STY specif	0	0		STY2038
624	CHIP5113	STY specif	0	0		STY2054
625	CHIP5040	STY specif	0	1		STY1616
626	CHIP5055	STY specif	0	1		STY1632
627	CHIP5071	STY specif	0	1		STY1889
628	CHIP5000	STY specif	0	0		STY1072
629	CHIP5108	STY specif	0	1		STY2048
630	CHIP5123	STY specif	0	1		STY2064
631	CHIP5057	STY specif	0	1		STY1635
632	CHIP5073	STY specif	0	1		STY1891
633	CHIP5086	STY specif	0	1		STY2025
634	CHIP5195	STY specif	0	1		STY3091
635	CHIP5125	STY specif	0	1		STY2066
636	CHIP5141	STY specif	0	1		STY2296
637	CHIP5350	STY specif	0	1		STY4590
638	CHIP5372	STY specif	0	1		STY4629
639	CHIP5384	STY specif	0	1		STY4652
640	CHIP5321	STY specif	0	1		STY4557
641	CHIP5335	STY specif	0	1		STY4574
642	CHIP5351	STY specif	0	1		STY4591
643	CHIP5414	STY specif	0	1		STY4826
644	CHIP5429	STY specif	0	1		STY4851
645	CHIP5369	STM/STY	0	0		STY4625
646	CHIP5303	STY specif	0	1		STY4528
647	CHIP5318	STY specif	0	1		STY4552
648	CHIP5415	STY specif	0	1		STY4827
649	CHIP0777	STM/STY	0	1		STY3197
650	CHIP0793	STM/STY	1	1	STM2397 pgtB	Phosphogl STY2634
651	CHIP0809	STM/STY	1	1	STM2029 cbfF	synthesis c STY2234
652	CHIP0833	STM/STY	1	1	STM3577 tcp	methyl-acc STY4234
653	CHIP2664	STM/STY	1	1	STM0123 murE	UDP-N-ac $\epsilon$ STY0143
654	CHIP2680	STM/STY	1	1	STM0158 acnB	aconitate h STY0181
655	CHIP2674	STM/STY	1	1	STM0148	putative cyf STY0170
656	CHIP2690	STM specif	1	0	STM0174 stiH	putative fimbriae
657	CHIP2706	STM/STY	1	1	STM0193 fhuD	ABC super STY0220
658	CHIP2722	STM/STY	1	1	STM0234 ldcC	lysine deca STY0259
659	CHIP2738	STM/STY	1	1	STM1514 ydeJ	putative Cc STY1547
660	CHIP0772	STM specif	1	0	STM3640 lpfA	long polar fimbria
661	CHIP3316	STM/STY	1	1	STM0697 seqA	negative m STY0735
662	CHIP0782	STM/STY	1	1	STM1965 yedE	paral putati STY2173
663	CHIP0798	STM/STY	1	1	STM3711 rfaF	ADP-hepto STY4084
664	CHIP0814	STM/STY	1	1	STM2024 cbfL	synthesis c STY2228
665	CHIP0830	STM/STY	1	1	STM1725 trpC	bifunctiona STY1326

666	CHIP2645	STM/STY	1	1	STM0081	putative se	STY0093	
667	CHIP2591	STM/STY	1	1	STM3853	phoU	regulatory ;	STY3930
668	CHIP2615	STM/STY	1	1	STM0015		putative ba	STY0015
669	CHIP0856	STM/STY	1	1	STM3110	mutY	adenine D†	STY3265
670	CHIP3239	STM/STY	1	1	STM3312	yrbE	putative AE	STY3491
671	CHIP3255	STM/STY	1	1	STM3347	yhcB	putative pe	STY3527
672	CHIP3279	STM/STY	1	1	STM0632	ybeC	putative Se	STY0682
673	CHIP3825	STM/STY	1	0	STM1110		putative cytoplasmic pr	
674	CHIP3841	STM/STY	1	1	STM1152	yceK	putative ou	STY1189
675	CHIP2417	STM/STY	1	1	STM3497	yrfH	heat shock	STY4299
676	CHIP2433	STM specil	1	0	STM3522	rtcR	sigma N (sigma 54)-de	
677	CHIP2449	STM/STY	1	1	STM3544	yhhW	putative cy†	STY4267
678	CHIP3714	STM/STY	1	1	STM4541	mdbB	phosphogly	STY4894
679	CHIP3859	STM/STY	1	1	STM1204	fhuE	outer mem	STY1244
680	CHIP2435	STM specil	1	0	STM3527		putative inner membra	
681	CHIP2451	STM/STY	1	0	STM3552	yhhA	putative outer membra	
682	CHIP3716	STM/STY	1	1	STM4545		putative inr	STY4898
683	CHIP3732	STM/STY	1	1	STM4585	gpmB	putative ph	STY4932
684	CHIP3764	STM specil	1	0	STM0295		putative cytoplasmic pr	
685	CHIP2461	STM/STY	1	1	STM3576	zntA	P-type ATF	STY4235
686	CHIP3726	STM specil	1	0	STM4572	stjB	putative fimbrial usher	
687	CHIP4038	STM specil	1	0	STM2726		Fels-2 prophage: hypo	
688	CHIP4054	STM specil	1	0	STM2747		putative cytoplasmic pr	
689	CHIP4070	STM specil	1	0	STM2763		putative integrase	
690	CHIP4086	STM/STY	1	1	STM2788		tricarboxyli†	STY2908
691	CHIP3568	STM/STY	1	1	STM4244	yjbO	putative inr	STY4440
692	CHIP3592	STM/STY	1	1	STM4295	adiY	transcriptio	STY4494
693	CHIP3424	STM/STY	1	1	STM0868		putative tra	STY0901
694	CHIP3440	STM specil	1	0	STM0896		Fels-1 prophage	
695	CHIP3080	STM/STY	1	1	STM2477	yffH	putative py	STY2714
696	CHIP3480	STM specil	1	0	STM0948		putative cytoplasmic pr	
697	CHIP3074	STM/STY	1	1	STM2450	amiA	N-acetylm†	STY2687
698	CHIP3474	STM/STY	1	1	STM0936	hcr	NADH oxid	STY0932
699	CHIP3490	STM/STY	1	1	STM0969	ycaM	putative AF	STY0967
700	CHIP3506	STM/STY	1	1	STM0994	mukB	kinesin-line	STY0996
701	CHIP3531	STM specil	0	0	STM1041		Gfsy-2 prophage; prob	
702	CHIP4123	STM/STY	1	0	STM4093	ftsN	essential c†	STY3777
703	CHIP4157	STM specil	1	0	STM2901		putative cytoplasmic pr	
704	CHIP3613	STM/STY	1	1	STM4343	frdA	fumarate r†	STY4703
705	CHIP3061	STM/STY	1	1	STM2420	xapR	regulator fc	STY2655
706	CHIP3461	STM specil	1	0	STM0918		Fels-1 prophage; putat	
707	CHIP3109	STM/STY	1	1	STM2533	sseA	putative su	STY2779
708	CHIP3125	STM/STY	1	1	STM2569	yfhB	putative ;	STY2815
709	CHIP3119	STM/STY	1	1	STM2560	yjdL	putative PC	STY2807
710	CHIP3616	STM/STY	1	1	STM4349	yjeQ	putative G†	STY4709
711	CHIP2968	STM/STY	1	1	STM2009	amn	AMP nucle	STY2211
712	CHIP3008	STM/STY	1	1	STM2316	nuoN	NADH deh†	STY2546
713	CHIP3032	STM/STY	1	1	STM2360		putative di†	STY2590
714	CHIP2284	STM/STY	1	1	STM1198	pabC	4-amino-4-	STY1237
715	CHIP0195	STM/STY	1	1	STM2056	pduV	Propanedic	STY2261
716	CHIP0219	STM/STY	0	0	STM3445	tufA	protein chain elongatio	
717	CHIP2318	STM/STY	1	1	STM1488	mlc	transcriptio	STY1576

718	CHIP0267	STM/STY	1	1	STM0304	sinR	transcriptio	STY0341
719	CHIP2366	STM/STY	1	1	STM1441		putative inr	STY1681
720	CHIP3635	STM/STY	1	1	STM4397	fkIB	FKBP-type	STY4753
721	CHIP0277	STM/STY	1	1	STM0115	leuO	putative tra	STY0134
722	CHIP2949	STM/STY	1	0	STM1941		putative inr	STY2152
723	CHIP2965	STM specil	1	0	STM2006		putative branched	chai
724	CHIP3661	STM specil	1	0	STM4435		putative cytoplasmic	pr
725	CHIP3005	STM/STY	1	1	STM2313	elaC	putative mε	STY2544
726	CHIP3021	STM/STY	1	1	STM2340		putative tra	STY2570
727	CHIP3671	STM/STY	1	1	STM4464		putative arç	STY4802
728	CHIP3687	STM specil	1	0	STM4496		putative ATPase	involv
729	CHIP3031	STM/STY	1	1	STM2359		putative an	STY2589
730	CHIP2283	STM/STY	1	1	STM1190	yceD	putative mε	STY1229
731	CHIP2307	STM/STY	1	1	STM1343	nlpC	lipoprotein	STY1767
732	CHIP2323	STM/STY	1	1	STM1084	yccK	putative su	STY1111
733	CHIP1341	STM/STY	1	1	STM0301	safC	putative fir	STY0336
734	CHIP1357	STM/STY	1	1	STM0232	accA	acetylCoA	STY0255
735	CHIP1469	STM/STY	1	1	STM0443	cyoA	cytochromε	STY0485
736	CHIP1397	STM/STY	1	1	STM0153	aceF	pyruvate dε	STY0176
737	CHIP3914	STM/STY	1	1	STM1317	celG	putative glt	STY1796
738	CHIP3938	STM specil	1	0	STM1360	ydiN	putative MFS family	tra
739	CHIP0517	STM/STY	1	1	STM2782	mig-14	putative tra	STY2900
740	CHIP3964	STM/STY	1	1	STM1460	ydgK	putative inr	STY1662
741	CHIP3980	STM/STY	1	1	STM1486	ynfM	putative Mf	STY1579
742	CHIP0573	STM/STY	1	1	STM4229	malE	ABC super	STY4425
743	CHIP1336	STM/STY	1	1	STM0306		homologue	STY0351
744	CHIP1448	STM/STY	1	1	STM0377	yaiW	putative ou	STY0409
745	CHIP1458	STM/STY	1	1	STM0407	secD	preprotein	STY0445
746	CHIP1386	STM/STY	1	1	STM0124	murF	D-alanine:I	STY0144
747	CHIP1498	STM/STY	1	1	STM2363	cvpA	membrane	STY2593
748	CHIP0488	STM/STY	1	1	STM2785	tctD	tricarboxyli	STY2904
749	CHIP3943	STM/STY	1	1	STM1370	sufB	putative AE	STY1753
750	CHIP0544	STM/STY	1	1	STM3561	livG	ABC super	STY4251
751	CHIP1557	STM/STY	1	1	STM0461	mdlB	putative AE	STY0504
752	CHIP1573	STM/STY	1	1	STM0568	pheP	APC family	STY0617
753	CHIP4742	STM/STY	0	1	STM2210		pseudogen	STY2446
754	CHIP1997	STM/STY	1	1	STM4412		putative pe	STY4771
755	CHIP3169	STM/STY	1	1	STM2645	yfiK	paral putati	STY2838
756	CHIP2045	STM/STY	1	1	STM3641	yhjY	putative lip:	STY4161
757	CHIP3219	STM/STY	1	1	STM3275	yhbV	putative prε	STY3458
758	CHIP1512	STM/STY	1	1	STM2292	yfaX	putative tra	STY2522
759	CHIP1528	STM/STY	1	1	STM2540	hscB	co-chaperc	STY2786
760	CHIP1045	STM/STY	1	1	STM0027	bcfG	fimbrial chε	STY0032
761	CHIP2000	STM/STY	1	1	STM4415	fbp	fructose-bi:	STY4774
762	CHIP2016	STM/STY	1	1	STM4543	dnaC	chromoson	STY4896
763	CHIP3142	STM specil	1	0	STM2598		Gifsy-1 prophage	
764	CHIP2018	STM/STY	1	1	STM4550	fhuF	ferric hydrc	STY4903
765	CHIP2034	STM/STY	1	1	STM3709	kbl	2-amino-3-	STY4086
766	CHIP2050	STM/STY	1	1	STM3620	yhjQ	putative AT	STY4180
767	CHIP3214	STM/STY	1	1	STM3268	yraR	putative nu	STY3451
768	CHIP1515	STM/STY	1	1	STM2282	glpQ	glyceropho	STY2511
769	CHIP0722	STM/STY	1	1	STM2277	nrdA	ribonucleo:	STY2506

770	CHIP0738	STM/STY	1	1	STM2894	invC	surface pre	STY3017
771	CHIP1805	STM/STY	1	1	STM4083	yiiR	putative inr	STY3787
772	CHIP1837	STM/STY	1	1	STM0699		putative cyf	STY0737
773	CHIP1869	STM/STY	1	1	STM0737	sucB	2-oxogluta	STY0780
774	CHIP0675	STM/STY	1	1	STM4005	glnG	response r	STY3876
775	CHIP0669	STM/STY	1	1	STM3469	pabA	p-aminobe	STY4327
776	CHIP1824	STM/STY	1	1	STM3999	polA	DNA polym	STY3881
777	CHIP1856	STM/STY	1	1	STM0876	ybjN	putative cyf	STY0909
778	CHIP1888	STM/STY	1	1	STM3459	yheS	putative AT	STY4339
779	CHIP0614	STM/STY	1	1	STM4265	soxS	transcriptio	STY4463
780	CHIP0726	STM/STY	1	1	STM2579	recO	gap repair	STY2825
781	CHIP0105	STM/STY	1	1	STM1879	ptrB	protease II	STY2085
782	CHIP0129	STM/STY	1	1	STM4172	zraP	zinc-resist	STY3713
783	CHIP0145	STM/STY	1	1	STM4016	yshA	putative ou	STY3862
784	CHIP3951	STM/STY	1	1	STM1425	ydhE	putative M	STY1697
785	CHIP0401	STM/STY	1	0	STM2437	yfeJ	putative G	STY2675
786	CHIP0417	STM/STY	0	0	STM0946	tnpA_1	IS200 trans	STY1844
787	CHIP1286	STM/STY	1	1	STM2661	yfiH	putative inr	STY2850
788	CHIP1302	STM/STY	1	1	STM0051	yaaF	putative pu	STY0060
789	CHIP4683	STM/STY	0	0	STM1007		Gifsy-2 prophage	
790	CHIP4707	STM/STY	1	0	STM1859		putative cyf	STY1994
791	CHIP4739	STM/STY	1	1	STM3035		putative pe	STY3184
792	CHIP3624	STM/STY	1	0	STM4372		resembles	STY4728a
793	CHIP0174	STM/STY	1	1	STM4504		putative cyf	STY4859
794	CHIP0190	STM/STY	1	1	STM2051	pduP	Propanedic	STY2256
795	CHIP1233	STM/STY	1	1	STM4280	nrfD	putative nit	STY4478
796	CHIP1249	STM/STY	1	1	STM1905	yecO	putative S	STY2113
797	CHIP0438	STM/STY	1	1	STM4258		putative m	STY4453
798	CHIP1297	STM/STY	1	1	STM0009	yaaH	putative re	STY0009
799	CHIP1291	STM specil	1	0	STM2696		Fels-2 prophage: simil	
800	CHIP1307	STM/STY	1	1	STM0040	nhaR	transcriptio	STY0048
801	CHIP0063	STM/STY	1	1	STM3919	wzzE	modulator	STY3636
802	CHIP0025	STM/STY	1	1	STM3962	yigL	putative hy	STY3597
803	CHIP0049	STM/STY	1	1	STM3937	hemD	uroporphyr	STY3622
804	CHIP2177	STM/STY	1	1	STM3070	epd	D-erythro	STY3228
805	CHIP1702	STM/STY	1	1	STM1754	yehK	putative ph	STY1296
806	CHIP1718	STM/STY	0	0				STY1917
807	CHIP1734	STM/STY	1	1	STM3017	kduD	2-deoxy-D-	STY3162
808	CHIP1750	STM/STY	1	1	STM2959		putative gly	STY3097
809	CHIP1766	STM/STY	1	1	STM2985	ygdK	putative Su	STY3125
810	CHIP1782	STM/STY	1	1	STM4053		putative C4	STY3819
811	CHIP1768	STM/STY	1	1	STM2969	ygdH	putative nu	STY3108
812	CHIP1792	STM/STY	1	1	STM4032		putative ac	STY3846
813	CHIP0022	STM/STY	1	1	STM3965	metE	5-methyltet	STY3594
814	CHIP0038	STM/STY	1	1	STM3949	xerC	putative int	STY3610
815	CHIP0062	STM/STY	1	1	STM3920	wecB	UDP-N-ac	STY3635
816	CHIP0086	STM/STY	1	1	STM4138	birA	bifunctiona	STY3741
817	CHIP1739	STM/STY	1	1	STM2996	recC	exonucleas	STY3134
818	CHIP0928	STM/STY	1	1	STM1742	oppF	ABC super	STY1309
819	CHIP1779	STM/STY	1	1	STM4081	tpiA	triosephos	STY3789
820	CHIP4392	STM/STY	1	1	STM0483	apt	adenine ph	STY0527
821	CHIP4424	STM specil	1	0	STM0538		putative outer membra	



822	CHIP4448	STM/STY	1	1	STM0585	fepA	outer mem	STY0628
823	CHIP1182	STM/STY	1	1	STM0976	ycaP	putative inr	STY0976
824	CHIP4466	STM/STY	1	1	STM0303	ybeJ	putative xyl	STY0338
825	CHIP2754	STM/STY	1	1	STM1547		putative m $\alpha$	STY1514
826	CHIP2778	STM/STY	1	1	STM1586		putative pe	STY1479
827	CHIP2802	STM specil	1	0	STM1625	ydcl	putative transcriptional	
828	CHIP2826	STM/STY	1	1	STM1661	ydaA	putative un	STY1403
829	CHIP2820	STM/STY	1	0	STM1650		putative reverse transc	
830	CHIP2844	STM/STY	1	0	STM1698		putative inr	STY1353
831	CHIP4405	STM/STY	1	1	STM0509		putative ou	STY0556
832	CHIP1169	STM/STY	1	1	STM1001		putative let	STY1005
833	CHIP1185	STM/STY	1	1	STM0956	cydC	ABC super	STY0954
834	CHIP4469	STM/STY	1	0	STM0620	citX	putative cyf	STY0669
835	CHIP4463	STM/STY	1	1	STM0607	dsbG	periplasmic	STY0652
836	CHIP2855	STM/STY	1	1	STM1732	ompW	outer mem	STY1319
837	CHIP2775	STM/STY	1	1	STM1573		putative cyf	STY1491a
838	CHIP2799	STM/STY	1	1	STM1621		putative pe	STY1443
839	CHIP2823	STM/STY	1	1	STM1655	dbpA	ATP-deper	STY1410
840	CHIP2839	STM/STY	1	1	STM1685	ycjX	putative AT	STY1376
841	CHIP4194	STM/STY	1	1	STM2957	ygcA	putative Rf	STY3095
842	CHIP4218	STM/STY	1	1	STM3006	ygdQ	putative int	STY3149
843	CHIP4234	STM/STY	1	1	STM3036		putative inr	STY3186
844	CHIP4258	STM/STY	1	1	STM3099	yggR	putative pr $\alpha$	STY3252
845	CHIP4370	STM/STY	1	1	STM0447	tig	peptidyl-pr $\alpha$	STY0489
846	CHIP2466	STM/STY	1	1	STM3583	yhhU	putative Ph	STY4228
847	CHIP2508	STM/STY	1	1	STM3679		putative cyf	STY4117
848	CHIP2540	STM/STY	1	1	STM3767		putative cyf	STY4018
849	CHIP4293	STM/STY	1	1	STM3176	ygiW	putative ou	STY3353
850	CHIP4221	STM/STY	1	1	STM3015	ygeA	putative as	STY3159
851	CHIP4245	STM specil	1	0	STM3079		putative hydrolase or a	
852	CHIP4269	STM specil	1	0	STM3123		putative arylsulfatase r	
853	CHIP2487	STM/STY	1	1	STM3628	dppC	ABC super	STY4170
854	CHIP2503	STM/STY	1	1	STM3665	avtA	valine-pyru	STY4133
855	CHIP2519	STM/STY	1	1	STM3697		putative m $\alpha$	STY4099
856	CHIP2535	STM/STY	1	1	STM3748	yicH	putative inr	STY4045
857	CHIP4488	STM/STY	1	1	STM0358	res	DNA restric	STY0389
858	CHIP1628	STM/STY	1	1	STM2853	hycA	transcriptio	STY2975
859	CHIP2173	STM/STY	1	1	STM3132		putative xyl	STY3302
860	CHIP1614	STM/STY	1	1	STM2855	hypB	hydrogena $\alpha$	STY2977
861	CHIP1638	STM/STY	1	1	STM2182	yohK	putative tra	STY2412
862	CHIP1654	STM/STY	1	1	STM2084	rfbM	LPS side c	STY2293
863	CHIP1670	STM/STY	1	1	STM2121	dcd	dUTPase	STY2334
864	CHIP1686	STM/STY	0	0	STM2248	ccmG	heme lyase	STY2474
865	CHIP1648	STM/STY	1	1	STM2218	yejE	putative AE	STY2454
866	CHIP1672	STM/STY	1	1	STM2145	yegW	putative re $\alpha$	STY2374
867	CHIP1688	STM/STY	1	1	STM1844	htpX	heat shock	STY1975
868	CHIP1904	STM/STY	1	1	STM3418	rpsM	30S riboso	STY4380
869	CHIP2112	STM/STY	1	1	STM3591	uspA	universal s	STY4212
870	CHIP2128	STM/STY	1	1	STM3341	sspB	stringent st	STY3522
871	CHIP2106	STM/STY	1	1	STM3612	kdgK	ketodeoxy $\alpha$	STY4191
872	CHIP2122	STM/STY	1	1	STM3512	gntT	GntP famil	STY4284
873	CHIP1954	STM/STY	1	1	STM4404	cysQ	affects poo	STY4762

874	CHIP2162	STM/STY	1	1	STM3182	yqiA	putative es	STY3360
875	CHIP1611	STM/STY	1	1	STM2837	srIR	transcriptio	STY2959
876	CHIP4519	STM/STY	1	1	STM2186		putative N/	STY2416
877	CHIP2237	STM/STY	1	1	STM3162	yghB	putative Dε	STY3334
878	CHIP0370	STM/STY	1	1	STM1408	ssal	Secretion ε	STY1712
879	CHIP3337	STM/STY	1	1	STM0734	sdhA	succinate c	STY0777
880	CHIP3377	STM/STY	1	1	STM0801	ybhK	putative cyI	STY0835
881	CHIP3417	STM specil	1	0	STM0858		putative dehydrogenas	
882	CHIP0315	STM/STY	1	1	STM1175	flgC	flagellar bic	STY1214
883	CHIP3372	STM/STY	1	1	STM0793	bioA	7,8-diaminα	STY0826
884	CHIP3404	STM specil	1	0	STM0839		putative inner membra	
885	CHIP2193	STM/STY	1	1	STM3332	yhcG	putative cyI	STY3512
886	CHIP0326	STM/STY	1	1	STM3756	rmbA	putative cyI	STY4032
887	CHIP2233	STM/STY	1	1	STM3188	ygiC	putative glt	STY3366
888	CHIP0366	STM/STY	1	1	STM1404	sseF	Secretion ε	STY1716
889	CHIP3399	STM/STY	1	1	STM0833	ompX	outer mem	STY0872
890	CHIP3632	STM/STY	1	1	STM4384	sgaB	putative PT	STY4740
891	CHIP3656	STM specil	1	0	STM4430		putative sugar kinase,	
892	CHIP4346	STM/STY	1	1	STM0394	araJ	MFS family	STY0428
893	CHIP3704	STM/STY	1	0	STM4525	hsdM	DNA methylase M, hos	
894	CHIP4372	STM/STY	1	1	STM0453	ybaV	putative D†	STY0495
895	CHIP4428	STM/STY	1	1	STM0551		putative Di†	STY0599
896	CHIP4429	STM/STY	0	0				STY0602
897	CHIP4438	STM/STY	1	1	STM0298		putative int	STY0329
898	CHIP4478	STM/STY	1	0	STM0342		putative pe	STY0375
899	CHIP4480	STM/STY	1	1	STM0344		putative re:	STY0377
900	CHIP1745	STM/STY	1	1	STM2967	syd	interacts w/	STY3106
901	CHIP4664	STM/STY	1	1	STM4316		putative cyI	STY4516
902	CHIP4603	STM/STY	1	0	STM4071		putative Mε	STY3799
903	CHIP4644	STM/STY	1	1	STM3783		putative pe	STY3999
904	CHIP2169	STM/STY	1	1	STM3143	hybG	hydrogena:	STY3314
905	CHIP1140	STM/STY	1	1	STM1535		putative hy	STY1528
906	CHIP1156	STM/STY	1	0	STM1520	marR	transcriptio	STY1540
907	CHIP2555	STM/STY	1	1	STM3805	yidH	putative inr	STY3974
908	CHIP2532	STM/STY	1	1	STM3744	recG	DNA helica	STY4048
909	CHIP2485	STM/STY	1	1	STM3623	yhjT	putative inr	STY4177
910	CHIP1324	STM/STY	1	1	STM3795	ilvN	acetolactat	STY3987
911	CHIP2428	STM specil	1	0	STM3516		putative cytoplasmic pr	
912	CHIP3941	STM/STY	1	1	STM1366		putative pr†	STY1757
913	CHIP0084	STM/STY	1	0	STM4133	ileU	glutamate tRNA 2 (dup	
914	CHIP4642	STM specil	1	0	STM1865		putative cytoplasmic pr	
915	CHIP4666	STM/STY	1	0	STM4478		putative cytoplasmic pr	
916	CHIP4604	STM/STY	1	0	STM4000	spf	spot 42 RNA, inhibition	
917	CHIP4661	STM/STY	1	0	STM4140		pseudogene; no in-frar	
918	CHIP4654	STM/STY	1	1	STM3911		putative inr	STY3643
919	CHIP3272	STM/STY	1	0	STM3387	yhdU	putative periplasmic pr	
920	CHIP3237	STM/STY	1	1	STM3308	yrbA	putative tra	STY3487
921	CHIP2947	STM/STY	1	0	STM1939		putative glt	STY2147
922	CHIP0824	STM specil	1	0	PSLT054	samB	mutagenesis by UV an	
923	CHIP1011	STM specil	1	0	PSLT055	samA	mutagenesis by UV an	
924	CHIP0657	STM specil	1	0	PSLT040	spvA	Salmonella plasmid vir	
925	CHIP1078	STM specil	1	0	PSLT064		putative inner membra	

926	CHIP0952	STM specif	1	0	PSLT051		putative cytoplasmic pr
927	CHIP1058	STM specif	0	0	PSLT024		hypothetical protein
928	CHIP1076	STM specif	1	0	PSLT062		putative cytoplasmic pr
929	CHIP1051	STM specif	1	0	PSLT004	repA3	DNA replication
930	CHIP0943	none	0	0	R460026	stbA	
931	CHIP4779	STM/STY	0	0			
932	CHIP4783	STM/STY	0	0			
933	CHIP4787	STM/STY	0	0			
934	CHIP4791	STM/STY	0	0			
935	CHIP4795	STM/STY	1	1	STM2479	aegA	putative ox STY2717
936	CHIP4799	STM specif	1	0	STM2509		putative IS3-like transp
937	CHIP4917	STY specif	0	1			STY0205
938	CHIP4933	STY specif	0	1			STY0326
939	CHIP4949	STM/STY	0	0			
940	CHIP4965	STY specif	0	1			STY1030
941	CHIP4981	STY specif	0	1			STY1052
942	CHIP5088	STY specif	0	1			STY2027
943	CHIP4943	STM/STY	0	1			STY0405
944	CHIP4959	STY specif	0	1			STY1019
945	CHIP4975	STY specif	0	1			STY1046
946	CHIP5083	STY specif	0	1			STY2021
947	CHIP5191	STY specif	0	1			STY3087
948	CHIP5205	STY specif	0	1			STY3285
949	CHIP4953	STY specif	0	1			STY0947
950	CHIP4969	STY specif	0	1			STY1040
951	CHIP4984	STY specif	0	1			STY1056
952	CHIP5092	STY specif	0	1			STY2031
953	CHIP5201	STY specif	0	1			STY3193
954	CHIP5213	STY specif	0	1			STY3347
955	CHIP4971	STM/STY	0	0			
956	CHIP4986	STY specif	0	1			STY1058
957	CHIP5002	STY specif	0	1			STY1076
958	CHIP5109	STY specif	0	1			STY2050
959	CHIP5215	STM/STY	0	0	STM0055		putative ox STY3532
960	CHIP5231	STY specif	0	1			STY3667
961	CHIP5432	STM/STY	0	1			STY4854
962	CHIP5290	STM/STY	0	0			
963	CHIP5306	STY specif	0	1			STY4534
964	CHIP5402	STY specif	0	1			STY4677
965	CHIP5418	STY specif	0	1			STY4830
966	CHIP5433	STM/STY	0	0			
967	CHIP5339	STY specif	0	1			STY4578
968	CHIP5355	STY specif	0	1			STY4595
969	CHIP5376	STY specif	0	1			STY4636
970	CHIP5388	STY specif	0	0			STY2419
971	CHIP5399	STY specif	0	1			STY4674
972	CHIP5340	STY specif	0	1			STY4579
973	CHIP2568	STM/STY	1	1	STM3821	torD	cytoplasmic STY3957
974	CHIP2584	STM/STY	1	1	STM3843	trmE	GTPase fo STY3937
975	CHIP2600	STM/STY	1	1	STM3871	atpB	membrane STY3907
976	CHIP0841	STM/STY	1	1	STM3715	rfaZ	lipopolysac STY4080
977	CHIP3240	STM/STY	1	1	STM3313	yrbF	putative AE STY3492

978	CHIP3256	STM/STY	1	0	STM3350		putative inner membra
979	CHIP3250	STM/STY	1	1	STM3342	sspA	stringent st STY3523
980	CHIP3266	STM/STY	1	1	STM3374	mreB	rod shape- STY3554
981	CHIP3282	STM/STY	1	1	STM0637	dacA	D-alanyl-D- STY0688
982	CHIP3298	STM specil	1	0	STM0659	hscC	putative heatshock pro
983	CHIP3314	STM/STY	1	1	STM0693	fur	transcriptio STY0731
984	CHIP2571	STM/STY	1	1	STM3824	torR	response r <sub>1</sub> STY3954
985	CHIP2748	STM/STY	1	1	STM1537		putative Ni <sub>2</sub> STY1526
986	CHIP2573	STM specil	0	0	STM3828	dgoA	galactonate dehydratas
987	CHIP2589	STM/STY	1	1	STM3848	yidZ	putative tra STY3935
988	CHIP2605	STM/STY	1	1	STM3880	kup	KUP family STY3898
989	CHIP0838	STM/STY	1	1	STM1332	rfc	O-antigen $\mu$ STY1779
990	CHIP0862	STM/STY	1	1	STM0776	galE	UDP-galac STY0809
991	CHIP0808	STM/STY	1	1	STM2030	cbiT	synthesis c STY2235
992	CHIP0840	STM/STY	1	1	STM3714	rfaK	putative he STY4081
993	CHIP2647	STM/STY	1	0	STM0084		putative su STY0098
994	CHIP2671	STM/STY	1	1	STM0138	yacG	putative cy <sub>1</sub> STY0160
995	CHIP2687	STM/STY	1	1	STM0171	yadF	putative ca STY0193
996	CHIP2711	STM/STY	1	1	STM0211	yaeH	putative cy <sub>1</sub> STY0233
997	CHIP2385	STM/STY	1	1	STM3405	smf	putative pr <sub>1</sub> STY4392
998	CHIP2401	STM/STY	1	1	STM3461		putative cy <sub>1</sub> STY4337
999	CHIP3865	STM/STY	1	1	STM1211	ndh	respiratory STY1251
1000	CHIP3881	STM/STY	1	1	STM1253		putative inr STY1868
1001	CHIP3897	STM/STY	1	1	STM1286	mipA	scaffolding STY1830
1002	CHIP4010	STM/STY	1	1	STM2116	wzc	putative tyr STY2329
1003	CHIP3867	STM/STY	1	1	STM1214	ycfR	putative ou STY1254
1004	CHIP3883	STM/STY	1	1	STM1261		putative cy <sub>1</sub> STY1859
1005	CHIP3899	STM/STY	1	1	STM1288		putative alc STY1828
1006	CHIP4012	STM/STY	1	1	STM2119	yegH	putative inr STY2332
1007	CHIP3740	STM/STY	1	1	STM4600	lasT	putative tR <sub>1</sub> STY4949
1008	CHIP4060	STM specil	1	0	STM2753		putative dehydrogenas
1009	CHIP4006	STM/STY	1	1	STM2109	gmd	GDP-D-ma STY2321
1010	CHIP4022	STM/STY	1	1	STM2136	yegQ	putative pr <sub>1</sub> STY2365
1011	CHIP3750	STM specil	1	0	STM0275		putative cytoplasmic pr
1012	CHIP3766	STM/STY	1	0	STM0297		putative tra STY0343
1013	CHIP3782	STM specil	1	0	STM0329		putative 3-isopropylma
1014	CHIP3798	STM/STY	1	1	STM1061	ycbY	putative N $\epsilon$ STY1082
1015	CHIP4144	STM/STY	1	1	STM4126	udhA	soluble pyr STY3748
1016	CHIP4168	STM/STY	1	1	STM2915	ygbM	putative en STY3040
1017	CHIP3048	STM/STY	1	1	STM2386	yfcN	putative Sn STY2618
1018	CHIP3064	STM/STY	1	1	STM2424	yfeR	putative tra STY2660
1019	CHIP3464	STM specil	1	0	STM0921		Fels-1 prophage; putat
1020	CHIP3104	STM/STY	1	1	STM2526	ndk	nucleoside STY2771
1021	CHIP3458	STM specil	1	0	STM0915		Fels-1 prophage
1022	CHIP3098	STM/STY	1	1	STM2510	guaA	GMP synth STY2751
1023	CHIP3114	STM/STY	1	1	STM2544	yfhP	believed to STY2790
1024	CHIP3130	STM specil	0	0	STM2586		Gifsy-1 prophage: simi
1025	CHIP4107	STM/STY	1	1	STM4059	cpXR	response r <sub>1</sub> STY3812
1026	CHIP3555	STM specil	1	0	STM4213		putative phage tail she
1027	CHIP4165	STM/STY	1	1	STM2911		putative pe STY3036
1028	CHIP4189	STM specil	1	0	STM2944	ygcB	putative helicase
1029	CHIP3069	STM/STY	1	1	STM2441	cysA	ABC super STY2678

1030	CHIP3085	STM/STY	1	1	STM2486	putative inr	STY2724	
1031	CHIP3493	STM/STY	1	1	STM0972	homologou	STY0971	
1032	CHIP3509	STM/STY	1	1	STM1003	putative tra	STY1009	
1033	CHIP3503	STM/STY	1	1	STM0991	smtA	S-adenosyl	STY0993
1034	CHIP2952	STM/STY	1	1	STM1953	yedO	putative 1- $\alpha$	STY2161
1035	CHIP2976	STM/STY	1	1	STM2075	hisH	glutamine $\epsilon$	STY2284
1036	CHIP3016	STM/STY	1	1	STM2333	yfbS	putative re	STY2563
1037	CHIP0193	STM/STY	1	1	STM2054	pduT	Propanedic	STY2259
1038	CHIP2292	STM/STY	1	1	STM1270	yeaS	paral putati	STY1851
1039	CHIP2278	STM/STY	1	1	STM1132		putative su	STY1169
1040	CHIP2302	STM/STY	1	1	STM1327	ydiY	putative sa	STY1784
1041	CHIP0251	STM/STY	1	1	STM0371	prpE	putative ac	STY0403
1042	CHIP2350	STM/STY	1	1	STM1318	katE	catalase; h	STY1793
1043	CHIP3619	STM/STY	1	1	STM4355	yjeS	putative Fe	STY4712
1044	CHIP2963	STM/STY	0	0				
1045	CHIP2360	STM/STY	1	1	STM1390	orf242	putative re	STY1730
1046	CHIP3629	STM/STY	1	1	STM4378	yjfN	putative inr	STY4734
1047	CHIP3645	STM specil	1	0	STM4418		sugar (and other) trans	
1048	CHIP2989	STM/STY	1	1	STM2276	ubiG	3-demethyl	STY2505
1049	CHIP3685	STM specil	1	0	STM4494		putative ABC-type sug	
1050	CHIP3701	STM/STY	1	1	STM4519		putative N/	STY4876
1051	CHIP2999	STM/STY	1	1	STM2298	pmrF	putative gly	STY2528
1052	CHIP3015	STM/STY	1	1	STM2332		putative hy	STY2562
1053	CHIP3711	STM specil	1	0	STM4537		putative PTS permeasi	
1054	CHIP2291	STM/STY	1	1	STM1269		putative ch	STY1852
1055	CHIP0232	STM specil	1	0	STM0200	stfG	putative minor fimbrial	
1056	CHIP0248	STM/STY	1	1	STM0368	prpB	putative ca	STY0400
1057	CHIP1437	STM/STY	1	1	STM2649	trxC	thioredoxin	STY2842
1058	CHIP1453	STM/STY	1	1	STM0390	aroM	protein of $\alpha$	STY0423
1059	CHIP1477	STM/STY	1	1	STM4236	dgkA	diacylglyce	STY4432
1060	CHIP1501	STM/STY	1	1	STM2347	yfcE	putative ph	STY2577
1061	CHIP0491	STM/STY	1	1	STM2297	yfbE	putative D $\epsilon$	STY2527
1062	CHIP0515	STM/STY	1	1	STM4226	yjbA	putative inr	STY4422
1063	CHIP3948	STM/STY	1	1	STM1375	ynhG	putative Ly	STY1748
1064	CHIP0541	STM/STY	1	1	STM1582	nhoA	putative an $\gamma$	STY1483
1065	CHIP0557	STM/STY	1	1	STM2265	ada	bifunctiona	STY2491
1066	CHIP1320	STM/STY	1	1	STM3785		putative re	STY3997
1067	CHIP1432	STM/STY	1	1	STM2577	acpS	holo-[acyl- $\alpha$	STY2823
1068	CHIP1360	STM/STY	1	1	STM0165	speD	S-adenosyl	STY0187
1069	CHIP1370	STM/STY	1	1	STM2061	sbmC	DNA gyras	STY2266
1070	CHIP1394	STM/STY	1	1	STM0146	ampD	N-acetyl-ar	STY0168
1071	CHIP1410	STM/STY	1	1	STM0156		putative pe	STY0179
1072	CHIP3919	STM/STY	1	1	STM1333	thrS	threonine tI	STY1778
1073	CHIP0528	STM/STY	1	1	STM0425	thil	sulfur trans	STY0464
1074	CHIP3975	STM/STY	1	1	STM1477	ydgl	putative an	STY1645
1075	CHIP1018	STM/STY	1	1	STM0495	ybaK	putative cyI	STY0541
1076	CHIP1581	STM/STY	1	1	STM0496	ybaP	putative cyI	STY0542
1077	CHIP1597	STM/STY	1	1	STM0594	fepB	ABC super	STY0638
1078	CHIP2005	STM/STY	1	1	STM4475	valS	valine tRN/	STY4814
1079	CHIP2029	STM/STY	1	1	STM4598	arcA	response rI	STY4947
1080	CHIP3193	STM/STY	1	1	STM3216		putative m $\epsilon$	STY3394
1081	CHIP2079	STM/STY	1	1	STM3743	spoU	putative tR	STY4049

1082	CHIP0973	STM/STY	1	1	STM1260	putative inr	STY1860	
1083	CHIP1544	STM/STY	1	1	STM2421	xapB	MFS super	STY2657
1084	CHIP1600	STM/STY	1	1	STM2773	iroB	putative gly	STY2890
1085	CHIP3148	STM specil	1	0	STM2604		Gifsy-1 prophage: simi	
1086	CHIP3164	STM/STY	0	1	STM1019		Gifsy-2 pro	STY1032
1087	CHIP3150	STM specil	1	0	STM2606		Gifsy-1 prophage: simi	
1088	CHIP3166	STM/STY	1	1	STM2642	yfiC	putative tra	STY2835
1089	CHIP3182	STM/STY	1	1	STM3192		putative an	STY3370
1090	CHIP2058	STM/STY	1	1	STM3587	yhil	paral putati	STY4223
1091	CHIP2074	STM/STY	1	1	STM3490	yrfB	putative inr	STY4306
1092	CHIP0976	STM/STY	1	1	STM2453		putative cyf	STY2690
1093	CHIP0634	STM/STY	1	1	STM2887	spaS	surface pre	STY3010
1094	CHIP0746	STM/STY	1	0	STM2465	eutM	putative detox protein i	
1095	CHIP1813	STM/STY	1	1	STM4056	yiiM	putative cyf	STY3815
1096	CHIP1845	STM/STY	1	1	STM0661	ybeK	putative pu	STY0706
1097	CHIP1877	STM/STY	1	1	STM0708	ybfA	putative pe	STY0748
1098	CHIP0683	STM/STY	1	1	STM2900	invH	invasion pr	STY3023
1099	CHIP0765	STM/STY	1	1	STM0552	fimW	putative fir	STY0600
1100	CHIP1832	STM/STY	1	1	STM0784	ybhA	putative hy	STY0817
1101	CHIP1864	STM/STY	1	1	STM0771		putative AE	STY0803
1102	CHIP0678	STM/STY	1	1	STM1070	ompA	putative hy	STY1091
1103	CHIP0710	STM/STY	1	1	STM1177	flgE	flagellar bic	STY1216
1104	CHIP0734	STM/STY	1	1	STM1776	prfA	peptide ch	STY1901
1105	CHIP0113	STM/STY	1	1	STM1928	otsA	trehalose- $\epsilon$	STY2137
1106	CHIP4712	STM/STY	1	1	STM1999		putative cyf	STY2207
1107	CHIP0153	STM/STY	1	1	STM3869	atpF	membrane	STY3909
1108	CHIP0385	STM/STY	1	1	STM1435	gloA	glyoxalase	STY1687
1109	CHIP1236	STM/STY	1	1	STM1952	yecS	putative AE	STY2160
1110	CHIP1252	STM/STY	1	1	STM1675		putative sh	STY1389
1111	CHIP0459	STM/STY	1	1	STM2638	rseB	anti sigma	STY2831
1112	CHIP0475	STM/STY	1	1	STM0730	gltA	citrate synt	STY0773
1113	CHIP0108	STM/STY	1	1	STM1230	phoQ	sensory kir	STY1270
1114	CHIP0132	STM/STY	1	1	STM4175	purD	phosphorib	STY3710
1115	CHIP0164	STM/STY	1	1	STM3286	infB	protein cha	STY3467
1116	CHIP0180	STM/STY	1	1	STM2041	pduD	Propanedic	STY2246
1117	CHIP3669	STM/STY	1	1	STM4453	treC	trehalose- $\mu$	STY4793
1118	CHIP0390	STM/STY	1	1	STM1394	ssaC	Secretion $\epsilon$	STY1726
1119	CHIP0406	STM/STY	1	1	STM1194	fabD	malonyl-Cc	STY1233
1120	CHIP1257	STM/STY	1	1	STM1705	osmB	osmotically	STY1346
1121	CHIP1273	STM/STY	1	1	STM3355		putative tar	STY3535
1122	CHIP0470	STM/STY	1	1	STM3721	rfaP	lipopolysac	STY4073
1123	CHIP0464	STM specil	0	0	STM1009		Gifsy-2 prophage; exo	
1124	CHIP0480	STM/STY	1	1	STM1143	csgB	minor curlir	STY1180
1125	CHIP0009	STM/STY	1	1	STM3979	ubiB	FMN reduc	STY3580
1126	CHIP0702	STM/STY	1	1	STM2673	rpIS	50S riboso	STY2860
1127	CHIP0057	STM/STY	1	1	STM3925	wecE	TDP-4-oxo	STY3630
1128	CHIP0073	STM/STY	1	1	STM3906		putative cyf	STY3651
1129	CHIP0875	STM/STY	1	1	STM1181	flgl	putative fla	STY1220
1130	CHIP0891	STM/STY	1	1	STM3477	cysG	siroheme s	STY4319
1131	CHIP0907	STM/STY	1	1	STM3002	lgt	phosphatid	STY3143
1132	CHIP0923	STM/STY	1	1	STM3210	dnaG	DNA biosyl	STY3389
1133	CHIP0939	STM/STY	1	1	STM0427	phnU	2-aminoethr	STY0466

1134	CHIP1790	STM/STY	1	1	STM4036	fdoH	formate de	STY3841
1135	CHIP0941	STM/STY	1	1	STM0828	glnQ	ABC super	STY0866
1136	CHIP0006	STM/STY	1	1	STM3982	fadA	3-ketoacyl-	STY3578
1137	CHIP0548	STM/STY	1	1	STM1914	flhB	putative pa	STY2123
1138	CHIP1164	STM/STY	1	1	STM0996	ycbK	putative ou	STY0998
1139	CHIP2093	STM/STY	1	1	STM3677	sgbE	L-ribulose-5-	STY4119
1140	CHIP2695	STM/STY	1	1	STM0179	yadE	putative xyl	STY0197
1141	CHIP0912	STM/STY	1	1	STM0608	ahpC	alkyl hydroly	STY0653
1142	CHIP1763	STM/STY	1	1	STM3011	galR	transcriptio	STY3155
1143	CHIP1787	STM/STY	1	1	STM4039		putative inr	STY3837
1144	CHIP1132	STM/STY	1	1	STM1893	zunB	ABC super	STY2101
1145	CHIP1172	STM/STY	1	1	STM1559		putative gly	STY1504
1146	CHIP1188	STM/STY	1	1	STM1578	narY	nitrate redt	STY1487
1147	CHIP1190	STM/STY	1	1	STM1580	narV	nitrate redt	STY1485
1148	CHIP4474	STM/STY	1	1	STM0337	stbD	putative fir	STY0370
1149	CHIP2858	STM/STY	1	1	STM1739	cls	cardiolipin	STY1312
1150	CHIP2882	STM/STY	1	1	STM1800	ycgQ	putative ho	STY1928
1151	CHIP2906	STM/STY	1	1	STM1847	yebR	putative G/	STY1978
1152	CHIP2930	STM/STY	1	1	STM1891	znuA	ABC super	STY2099
1153	CHIP2828	STM/STY	1	1	STM1663	ynal	putative int	STY1401
1154	CHIP4389	STM/STY	1	0	STM0479		putative tra	STY0523
1155	CHIP1145	STM/STY	1	1	STM0613		putative hy	STY0661
1156	CHIP4437	STM specil	1	0	STM0571		putative inner membra	
1157	CHIP4453	STM/STY	1	1	STM0591	fepG	ABC super	STY0635
1158	CHIP4477	STM/STY	1	1	STM0341		putative inr	STY0374
1159	CHIP4471	STM/STY	1	1	STM0624	citC	citrate lyas	STY0673
1160	CHIP2759	STM specil	1	0	STM1552		putative cytoplasmic pr	
1161	CHIP2879	STM/STY	1	1	STM1793		putative cyf	STY1921
1162	CHIP2807	STM specil	1	0	STM1630		putative inner membra	
1163	CHIP2927	STM/STY	1	1	STM1886	zwf	glucose-6-ph	STY2094
1164	CHIP2943	STM specil	1	0	STM1933		putative ribose 5-phos	
1165	CHIP4290	STM specil	1	0	STM3169		putative dicarboxylate-l	
1166	CHIP4314	STM/STY	1	1	STM2692		putative Hl	STY2878
1167	CHIP4242	STM/STY	1	1	STM3069	pgk	phosphogly	STY3227
1168	CHIP4354	STM/STY	1	1	STM0410		putative re	STY0448
1169	CHIP4282	STM/STY	1	1	STM3152		putative m	STY3325
1170	CHIP4586	STM/STY	1	1	STM2832	srIA	PTS family	STY2953
1171	CHIP4628	STM/STY	1	0	STM0266		putative cyf	STY0286
1172	CHIP4668	STM/STY	1	1	STM4529		putative cyf	STY4887
1173	CHIP4205	STM/STY	1	1	STM2978	fucU	conserved	STY3118
1174	CHIP4317	STM specil	1	0	STM2697		Fels-2 prophage: simila	
1175	CHIP4341	STM/STY	1	1	STM0386	proC	pyrroline-5-	STY0419
1176	CHIP4365	STM/STY	1	1	STM0439	cyoE	protohaem	STY0481
1177	CHIP4607	STM/STY	1	1	STM3004	ygdP	putative inv	STY3145
1178	CHIP4623	STM/STY	1	1	STM4445		putative di	STY4784
1179	CHIP4639	STM/STY	1	1	STM1504	ynfA	putative inr	STY1558
1180	CHIP4655	STM/STY	1	1	STM3908	ilvY	positive re	STY3649
1181	CHIP1612	STM/STY	1	1	STM2838	gutQ	putative po	STY2960
1182	CHIP4512	STM/STY	1	0	STM3540	yhgN	putative inner membra	
1183	CHIP4482	STM/STY	1	0	STM0350		homology t	STY0384
1184	CHIP1622	STM/STY	1	1	STM2828	oraA	regulator	STY2949
1185	CHIP4522	STM/STY	1	1	STM2191	galS	transcriptio	STY2425

1186	CHIP4538	STM/STY	1	1	STM2226	yejK	nucleotide	STY2463
1187	CHIP4554	STM/STY	1	1	STM2140	yegS	putative di	STY2369
1188	CHIP4570	STM/STY	1	1	STM2172	yohG	putative O	STY2402
1189	CHIP4532	STM/STY	1	1	STM2204	fruA	Sugar Spe	STY2439
1190	CHIP4556	STM/STY	1	1	STM2142	yegT	putative M	STY2371
1191	CHIP4572	STM/STY	1	1	STM2175		putative m	STY2405
1192	CHIP2096	STM/STY	1	1	STM3671	yiaM	putative tra	STY4127
1193	CHIP1928	STM/STY	1	1	STM0930	orfB	putative cy	STY0926
1194	CHIP1944	STM/STY	1	1	STM4369	yjfH	putative tR	STY4726
1195	CHIP1922	STM/STY	1	1	STM3451	yheN	putative AC	STY4347
1196	CHIP1938	STM/STY	1	1	STM4362	hflX	putative G	STY4719
1197	CHIP2146	STM/STY	1	1	STM3279	mtr	HAAAP far	STY3460
1198	CHIP1978	STM/STY	1	1	STM4583	trpR	transcriptio	STY4930
1199	CHIP1619	STM/STY	1	1	STM2820	yqaB	putative ph	STY2946
1200	CHIP1643	STM/STY	1	1	STM2213	yeiU	putative pe	STY2449
1201	CHIP2245	STM/STY	1	1	STM3112	mltC	membrane	STY3267
1202	CHIP2261	STM/STY	1	0	STM3061	ygfA	putative lig	STY3217
1203	CHIP3345	STM/STY	1	1	STM0756	nadA	quinolinate	STY0797
1204	CHIP3393	STM/STY	1	1	STM0821	dinG	LexA regul	STYrarB
1205	CHIP2190	STM/STY	1	1	STM3042	recJ	ssDNA exc	STY3198
1206	CHIP2206	STM/STY	1	1	STM3267	yraP	paral putati	STY3450
1207	CHIP3380	STM/STY	1	1	STM0806	moaE	molybdopt	STY0840
1208	CHIP3412	STM/STY	1	1	STM0852	yliG	putative Fe	STY0891
1209	CHIP0310	STM/STY	1	1	STM1384	ttrC	Tetrathion	STY1737
1210	CHIP2217	STM/STY	1	1	STM3231	yqjK	putative inr	STY3411
1211	CHIP0350	STM/STY	0	0	STM2771	fljB	Flagellar synthesis:	ph:
1212	CHIP2257	STM/STY	1	1	STM3073		putative AE	STY3231
1213	CHIP3407	STM/STY	1	1	STM0843	pflF	putative py	STY0882
1214	CHIP4337	STM/STY	1	1	STM0378	yaiY	putative inr	STY0410
1215	CHIP4369	STM/STY	1	1	STM0446	bolA	morphoger	STY0488
1216	CHIP3680	STM specil	1	0	STM4489		putative superfamily I	L
1217	CHIP4315	STM specil	1	0	STM2694		Fels-2 prophage: simil	
1218	CHIP3709	STM specil	1	0	STM4535		putative PTS permeas	
1219	CHIP3608	STM/STY	1	0	STM4335	ecnA	putative en	STY4695
1220	CHIP3601	STM specil	1	0	STM4320		putative bacterial regul	
1221	CHIP3602	STM/STY	1	1	STM4324	cutA	putative pe	STY4683
1222	CHIP3611	STM/STY	1	1	STM4340	frdD	fumarate r	STY4700
1223	CHIP0770	STM/STY	1	1	STM2899	invF	invasion pr	STY3022
1224	CHIP0844	STM/STY	1	1	STM1779	ipk	isopenteny	STY1905
1225	CHIP4028	STM/STY	1	1	STM2709		Fels-2 prop	STY4614
1226	CHIP4005	STM/STY	1	1	STM2107	wcaH	GDP-manr	STY2319
1227	CHIP2109	STM/STY	1	1	STM3605		putative ph	STY4198
1228	CHIP2138	STM/STY	1	1	STM3303	rpmA	50S riboso	STY3482
1229	CHIP2246	STM/STY	1	1	STM3111	yggX	putative cy	STY3266
1230	CHIP2186	STM/STY	1	1	STM3052		putative ou	STY3208
1231	CHIP1131	STM/STY	1	1	STM1888	pykA	pyruvate ki	STY2096
1232	CHIP1203	STM/STY	1	1	STM1644	ydbL	putative pe	STY1425
1233	CHIP1281	STM/STY	1	1	STM3361	yhcN	putative ou	STY3542
1234	CHIP1372	STM/STY	1	1	STM2059	yeeX	putative cy	STY2264
1235	CHIP1342	STM/STY	1	1	STM0290		putative cy	STY0320
1236	CHIP4725	STM/STY	1	1	STM2426		putative cy	STY2662
1237	CHIP3128	STM specil	1	0	STM2584	gogB	Gifsy-1 prophage: leuc	



1238	CHIP3090	STM/STY	1	1	STM2492	putative Gl	STY2730
1239	CHIP3100	STM/STY	1	1	STM2518	yfgJ	putative cy
1240	CHIP3045	STM/STY	1	1	STM2380	yfcL	putative cy
1241	CHIP3054	STM/STY	1	1	STM2400		putative inr
1242	CHIP2872	STM/STY	1	1	STM1770	chaB	cation tran
1243	CHIP3280	STM/STY	1	1	STM0635	lipB	putative lig
1244	CHIP3311	STM/STY	1	1	STM0688	ybfN	putative lip
1245	CHIP3035	STM/STY	1	1	STM2365	folC	multifuncti
1246	CHIP0514	STM specif	1	0	PSLT046		putative carbonic anhy
1247	CHIP0980	STM specif	1	0	PSLT025		putative cytoplasmic pr
1248	CHIP1048	STM specif	1	0	PSLT001		putative cytoplasmic pr
1249	CHIP1119	STM specif	1	0	PSLT111	finO	conjugative transfer: re
1250	CHIP4324	STM specif	1	0	PSLT061		putative inner membra
1251	CHIP1059	STM specif	1	0	PSLT027	ccdA	toxin addiction system:
1252	CHIP1049	STM specif	1	0	PSLT002		putative phospholipase
1253	CHIP1052	STM specif	1	0	PSLT005	tap	replication of plasmid
1254	CHIP1013	none	0	0	R460003		
1255	CHIP4780	STM/STY	1	1	STM0475	acrB	RND family
1256	CHIP4784	STM/STY	0	0			
1257	CHIP4788	STM/STY	0	0			
1258	CHIP4792	STM/STY	1	1	STM0555		pseudogen
1259	CHIP4796	STM/STY	0	0			
1260	CHIP4800	STM/STY	0	0			
1261	CHIP5012	STY specif	0	1			STY1498
1262	CHIP5028	STY specif	0	1			STY1604
1263	CHIP5044	STY specif	0	1			STY1620
1264	CHIP5059	STY specif	0	0			STY1637
1265	CHIP5075	STY specif	0	1			STY2004
1266	CHIP5096	STY specif	0	1			STY2035
1267	CHIP5038	STY specif	0	1			STY1614
1268	CHIP5053	STY specif	0	1			STY1630
1269	CHIP5069	STY specif	0	1			STY1886
1270	CHIP4998	STY specif	0	0			STY1070
1271	CHIP5106	STY specif	0	1			STY2046
1272	CHIP5121	STY specif	0	1			STY2062
1273	CHIP5048	STY specif	0	1			STY1624
1274	CHIP5063	STM/STY	0	1			STY1665
1275	CHIP5079	STY specif	0	0			STY2015
1276	CHIP5100	STY specif	0	0			STY2040
1277	CHIP5115	STY specif	0	0			STY2056
1278	CHIP5131	STY specif	0	1			STY2072
1279	CHIP5065	STM/STY	0	1			STY1742
1280	CHIP5081	STY specif	0	1			STY2017
1281	CHIP5094	STY specif	0	1			STY2033
1282	CHIP5203	STY specif	0	1			STY3278
1283	CHIP5133	STY specif	0	1			STY2074
1284	CHIP5149	STY specif	0	1			STY2352
1285	CHIP5358	STY specif	0	1			STY4599
1286	CHIP5379	STM/STY	0	0			
1287	CHIP5313	STY specif	0	1			STY4546
1288	CHIP5327	STY specif	0	1			STY4565
1289	CHIP5343	STY specif	0	1			STY4583

1290	CHIP5359	STY specif	0	1		STY4600
1291	CHIP5421	STY specif	0	1		STY4834
1292	CHIP5437	STY specif	0	1		STY4922
1293	CHIP5295	STM/STY	0	1		STY4480
1294	CHIP5311	STY specif	0	1		STY4543
1295	CHIP5407	STY specif	0	1		STY4756
1296	CHIP5422	STM/STY	0	1		STY4835
1297	CHIP2688	STM/STY	1	1	STM0172	yadG putative AE STY0194
1298	CHIP2720	STM/STY	1	1	STM0229	lpxB tetraacyldis STY0252
1299	CHIP2736	STM/STY	1	1	STM1511	ydfG putative ox STY1550
1300	CHIP0778	STM/STY	1	1	STM4292	basR response r1 STY4491
1301	CHIP0794	STM/STY	1	1	STM2396	pgtA Phosphogl STY2633
1302	CHIP2601	STM/STY	1	1	STM3872	atpI membrane STY3906
1303	CHIP0788	STM/STY	1	1	STM3385	fis site-specific STY3565
1304	CHIP0804	STM/STY	1	1	STM2034	cibB synthesis c STY2239
1305	CHIP0820	STM/STY	1	1	STM2018	cobU bifunctiona STY2221
1306	CHIP2635	STM/STY	1	1	STM0061	citF2 putativ bifu STY0070
1307	CHIP3235	STM/STY	1	1	STM3305	ispB octaprenyl STY3484
1308	CHIP3251	STM specif	1	0	STM3343	putative cytoplasmic pr
1309	CHIP2653	STM/STY	1	1	STM0095	rluA 23S rRNA STY0110
1310	CHIP2677	STM/STY	1	1	STM0152	aceE pyruvate de STY0175
1311	CHIP2693	STM specif	1	0	STM0177	stiA putative fimbrial subun
1312	CHIP2709	STM/STY	1	1	STM0208	dgt deoxyguan STY0230
1313	CHIP2725	STM/STY	1	1	STM0240	yaeJ putative-tR STY0265
1314	CHIP2741	STM/STY	1	0	STM1524	ynel putative su STY1536
1315	CHIP3287	STM/STY	1	1	STM0648	leuS leucine tRN STY0699
1316	CHIP3303	STM specif	1	0	STM0672	putative inner membra
1317	CHIP3327	STM/STY	1	1	STM0716	putative ph STY0756
1318	CHIP3720	STM/STY	1	1	STM4552	putative inr STY4905
1319	CHIP4032	STM/STY	1	1	STM2715	Fels-2 prop STY4620
1320	CHIP4056	STM specif	1	0	STM2749	putative cytoplasmic pr
1321	CHIP3722	STM/STY	1	1	STM4563	yjjU putative ph STY4914
1322	CHIP3738	STM/STY	1	1	STM4593	sthB putative fir STY4941
1323	CHIP3762	STM specif	1	0	STM0293	putative cytoplasmic pr
1324	CHIP3778	STM specif	1	0	STM0326	pseudogene; frameshii
1325	CHIP3794	STM specif	1	0	STM1053	Gfsy-2 prophage
1326	CHIP1122	STM/STY	1	1	STM4330	mopA chaperone STY4690
1327	CHIP3772	STM/STY	1	1	STM0312	yafK putative pe STY0357
1328	CHIP3788	STM specif	1	0	STM1045	Gfsy-2 prophage; prot
1329	CHIP3804	STM/STY	1	1	STM1079	yccV putative inr STY1102
1330	CHIP3828	STM/STY	1	1	STM1122	ycdC putative tra STY1157
1331	CHIP3844	STM/STY	1	1	STM1157	yceI putative se STY1194
1332	CHIP3860	STM/STY	1	1	STM1205	ycfF putative pr STY1245
1333	CHIP3806	STM/STY	1	1	STM1081	putative ou STY1104
1334	CHIP2382	STM/STY	1	1	STM3400	yrdB putative pe STY4397
1335	CHIP2398	STM/STY	1	1	STM3456	yheV putative cy STY4342
1336	CHIP2414	STM/STY	1	1	STM3493	mrcA transpeptid STY4303
1337	CHIP2430	STM specif	1	0	STM3518	rtcA RNA 3'-terminal phosp
1338	CHIP2446	STM/STY	1	1	STM3541	gntU low affinity STY4270
1339	CHIP3488	STM/STY	1	1	STM0964	dmsA anaerobic c STY0962
1340	CHIP4097	STM/STY	1	1	STM4014	putative pe STY3865
1341	CHIP4113	STM/STY	1	1	STM4075	ydeY putative AE STY3795

1342	CHIP4137	STM specil	1	0	STM4115	pflC	putative pyruvate form
1343	CHIP4153	STM/STY	1	1	STM2859	fhIA	formate hyd STY2981
1344	CHIP4169	STM/STY	1	0	STM2917	ygbK	paral putati STY3042
1345	CHIP4131	STM/STY	1	1	STM4108	gldA	glycerol de STY3759
1346	CHIP4147	STM/STY	1	1	STM2850	hycD	hydrogena: STY2972
1347	CHIP4163	STM/STY	1	0	STM2908		putative cyf STY3032
1348	CHIP4187	STM specil	1	0	STM2942		putative transposase
1349	CHIP3059	STM/STY	1	1	STM2413	yfeC	putative ne STY2652
1350	CHIP3083	STM/STY	1	1	STM2480	narQ	sensory his STY2718
1351	CHIP3517	STM specil	0	0	STM1026		Gifsy-2 prophage
1352	CHIP4118	STM/STY	1	1	STM4085	glpX	unknown fu STY3785
1353	CHIP4134	STM specil	1	0	STM4112	frwC	PTS system fructose-li
1354	CHIP3590	STM/STY	1	1	STM4287	phnO	putative re: STY4486
1355	CHIP3614	STM specil	1	0	STM4346	yjeO	putative inner membra
1356	CHIP3062	STM/STY	1	1	STM2422	xapA	xanthosine STY2658
1357	CHIP0217	STM/STY	1	1	STM1258		putative AT STY1862
1358	CHIP2316	STM/STY	1	1	STM1480	pntB	pyridine nu STY1588
1359	CHIP0257	STM/STY	1	0	STM2514	ratB	putative outer membra
1360	CHIP0281	STM/STY	1	1	STM0022	bcfB	fimbrial ch: STY0025
1361	CHIP3625	STM/STY	1	1	STM4373	yjfK	putative cyf STY4729
1362	CHIP3641	STM/STY	1	1	STM4409	ytfM	putative ou STY4768
1363	CHIP3643	STM/STY	1	1	STM4416	mpl	UDP-N-ac: STY4775
1364	CHIP2987	STM/STY	1	1	STM2274		putative pe STY2501
1365	CHIP3683	STM specil	1	0	STM4492		putative cytoplasmic pr
1366	CHIP3699	STM/STY	1	1	STM4517	yjiO	putative Mf STY4874
1367	CHIP2279	STM/STY	1	1	STM1133		putative de STY1170
1368	CHIP2303	STM/STY	1	1	STM1334	infC	protein cha STY1777
1369	CHIP3029	STM/STY	1	1	STM2357		putative an STY2587
1370	CHIP0214	STM/STY	1	1	STM1255		putative AE STY1865
1371	CHIP0230	STM specil	1	0	STM0198	stfE	putaive minor fimbrial s
1372	CHIP2329	STM/STY	1	1	STM1153	msyB	acidic prote STY1190
1373	CHIP2345	STM/STY	1	1	STM1282	yeaK	putative cyf STY1835
1374	CHIP2361	STM/STY	1	1	STM1427	cfa	cyclopropa STY1695
1375	CHIP2331	STM/STY	1	1	STM1160	solA	putative sa STY1198
1376	CHIP2347	STM/STY	1	1	STM1294	ansA	cytoplasmic STY1820
1377	CHIP0288	STM/STY	1	1	STM3997	dsbA	periplasmic STY3883
1378	CHIP3912	STM/STY	1	1	STM1311	osmE	transcriptio STY1802
1379	CHIP0513	STM specil	0	0	STM1868	mig-3	Homology to phage-tai
1380	CHIP3960	STM/STY	1	1	STM1449	tyrS	tyrosine tRl STY1673
1381	CHIP3946	STM/STY	1	1	STM1373	sufS	selenocyste STY1750
1382	CHIP0547	STM/STY	1	1	STM1170	mviN	putative vir STY1209
1383	CHIP0563	STM/STY	1	1	STM1416	ssaO	Secretion s STY1704
1384	CHIP1414	STM/STY	1	1	STM3873	gidB	associate v STY3905
1385	CHIP1430	STM/STY	1	1	STM2646	yfiD	putative for STY2839
1386	CHIP1358	STM/STY	1	1	STM0236	mesJ	cell cycle p STY0261
1387	CHIP1456	STM/STY	1	1	STM0401	malZ	maltodextri STY0439
1388	CHIP1472	STM/STY	1	1	STM4189	yjbB	putative Pf STY4406
1389	CHIP1488	STM/STY	1	1	STM4273	yjcG	putative Ss STY4471
1390	CHIP3909	STM/STY	1	1	STM1306	astB	succinylarg STY1808
1391	CHIP3925	STM/STY	1	1	STM1345	ydiU	putative cyf STY1765
1392	CHIP3957	STM/STY	1	1	STM1439	ydhF	putative alc STY1683
1393	CHIP0552	STM specil	1	0	STM2770	fljA	Flagellar synthesis: rep

1394	CHIP3999	STM/STY	1	1	STM2097	rfbB	dTDP-gluc	STY2307
1395	CHIP1435	STM/STY	1	1	STM2571		putative arr	STY2817
1396	CHIP1363	STM/STY	1	1	STM0205	yadS	putative inr	STY0227
1397	CHIP1379	STM/STY	1	1	STM0076	fixB	putative elk	STY0086
1398	CHIP1395	STM/STY	1	1	STM0147	ampE	putative tra	STY0169
1399	CHIP2053	STM/STY	1	1	STM3613	yhjJ	putative Zn	STY4190
1400	CHIP2069	STM/STY	1	1	STM3523	glpR	transcriptio	STY4280
1401	CHIP1510	STM/STY	1	1	STM2305	menE	o-succinylb	STY2535
1402	CHIP1534	STM/STY	1	1	STM2520	yfgL	putative se	STY2765
1403	CHIP1019	STM/STY	0	0				STY0450
1404	CHIP1590	STM/STY	1	1	STM0558	yfdH	putative gly	STY0606
1405	CHIP2024	STM/STY	1	1	STM4577	smp	membrane	STY4924
1406	CHIP2040	STM/STY	1	1	STM3666	ysaA	paral putati	STY4132
1407	CHIP2056	STM/STY	1	1	STM3604		putative inr	STY4199
1408	CHIP2072	STM/STY	1	1	STM3494	yrfE	putative N1	STY4302
1409	CHIP1513	STM/STY	1	1	STM2290	yfaV	putative Mf	STY2520
1410	CHIP1537	STM/STY	1	1	STM2497	uraA	NCS2 fami	STY2738
1411	CHIP1523	STM/STY	1	1	STM2337	ackA	acetate kin	STY2567
1412	CHIP1000	STM/STY	0	1	STM1015		Gifsy-2 pro	STY1023
1413	CHIP1571	STM/STY	1	1	STM0532	arcC	putative ca	STY0580
1414	CHIP1995	STM/STY	1	1	STM4407	ytfL	putative he	STY4766
1415	CHIP3159	STM specil	1	0	STM2616		Gifsy-1 prophage: simi	
1416	CHIP3175	STM/STY	1	1	STM3179	mdaB	NADPH sp	STY3356
1417	CHIP0595	STM/STY	1	1	STM3484	dam	DNA adeni	STY4312
1418	CHIP0707	STM/STY	1	1	STM2206	fruF	phosphoen	STY2442
1419	CHIP0723	STM/STY	1	1	STM2278	nrdB	ribonucleo	STY2507
1420	CHIP0755	STM/STY	1	1	STM2456	eutL	putative ca	STY2693
1421	CHIP1806	STM/STY	1	1	STM4080		putative rib	STY3790
1422	CHIP1838	STM/STY	1	1	STM0695	ybfE	LexA regul	STY0733
1423	CHIP0742	STM/STY	1	1	STM1242	envE	putative en	STY1882
1424	CHIP0766	STM/STY	1	1	STM2886	sicA	surface pre	STY3009
1425	CHIP1825	STM/STY	1	1	STM3996	yihE	putative ho	STY3884
1426	CHIP1857	STM/STY	1	1	STM0853	yliH	putative cy	STY0893
1427	CHIP1889	STM/STY	1	1	STM3464	prkB	putative ph	STY4333
1428	CHIP0687	STM/STY	1	1	STM4187	iclR	acetate op	STY4404
1429	CHIP1260	STM/STY	1	1	STM1676		putative alk	STY1388
1430	CHIP0457	STM/STY	1	1	STM3416	rpsD	30S riboso	STY4382
1431	CHIP0473	STM/STY	1	1	STM2184	sanA	vancomycil	STY2414
1432	CHIP0106	STM/STY	1	1	STM1731		putative ca	STY1320
1433	CHIP0130	STM/STY	1	1	STM4173	hydH	sensory kir	STY3712
1434	CHIP4729	STM/STY	0	1	STM2505		putative inr	STY2746
1435	CHIP4216	STM/STY	1	1	STM3003	ptsP	General P1	STY3144
1436	CHIP0396	STM/STY	0	0	STM2891	spaO	surface presentation of	
1437	CHIP0412	STM/STY	1	1	STM2065	phsA	Hydrogen $\epsilon$	STY2271
1438	CHIP1271	STM/STY	1	1	STM3363	yhcO	putative cy	STY3544
1439	CHIP1295	STM/STY	1	1	STM0016		putative pr	STY0016
1440	CHIP4676	STM/STY	1	1	STM0560		pseudogen	STY0609
1441	CHIP1305	STM/STY	1	1	STM0047	lspA	prolipoprot	STY0056
1442	CHIP4686	STM/STY	1	1	STM0715		putative cy	STY0755
1443	CHIP4702	STM/STY	1	1	STM1666		pseudogen	STY1398
1444	CHIP0143	STM/STY	1	1	STM4018	yihP	putative Gf	STY3860
1445	CHIP0175	STM/STY	1	1	STM2408	mnhH	Nramp fam	STY2649

1446	CHIP0391	STM/STY	1	1	STM2189	mgIA	ABC super	STY2422
1447	CHIP2308	STM/STY	1	1	STM1365	ydiJ	paral putati	STY1758
1448	CHIP1700	STM/STY	1	1	STM1763	narH	nitrate redt	STY1289
1449	CHIP1716	STM/STY	1	1	STM1798	ycgR	putative inr	STY1926
1450	CHIP1732	STM/STY	1	1	STM3020		putative tra	STY3165
1451	CHIP1748	STM/STY	1	1	STM2962	gudT	putative Mf	STY3100
1452	CHIP1764	STM/STY	1	1	STM3008	tas	putative alc	STY3151
1453	CHIP0004	STM/STY	1	1	STM3984	pepQ	proline dipε	STY3576
1454	CHIP0523	STM/STY	1	1	STM3539	asd	aspartate-ε	STY4271
1455	CHIP0967	STM/STY	1	1	STM0092	surA	peptidyl-prc	STY0107
1456	CHIP0060	STM/STY	1	1	STM3922	rffG	dTDP-glucı	STY3633
1457	CHIP0076	STM/STY	1	1	STM3903	ilvE	branched-c	STY3654
1458	CHIP1703	STM/STY	1	1	STM1752	galU	glucose-1-ı	STY1298
1459	CHIP0094	STM/STY	1	1	STM4153	rpoB	RNA polym	STY3732
1460	CHIP1713	STM/STY	1	1	STM1808		putative cyı	STY1937
1461	CHIP0902	STM/STY	1	1	STM0103	araB	L-ribulokinε	STY0120
1462	CHIP0926	STM/STY	1	1	STM1745	oppB	ABC super	STY1305
1463	CHIP0942	STM/STY	1	1	STM2166	bgIX	beta-D-glucı	STY2396
1464	CHIP0007	STM/STY	1	0	STM3981		putative cytoplasmic pr	
1465	CHIP4456	STM/STY	1	1	STM0597	entB	2,3-dihydr	STY0641
1466	CHIP2848	STM/STY	1	1	STM1710	pgpB	phosphatid	STY1341
1467	CHIP2864	STM/STY	1	1	STM1755	yhcJ	putative cyı	STY1295
1468	CHIP2784	STM specil	1	0	STM1596	ydcX	putative inner membra	
1469	CHIP2800	STM/STY	1	1	STM1622	ydcG	paral putati	STY1442
1470	CHIP2824	STM/STY	1	1	STM1657		putative mε	STY1408
1471	CHIP2834	STM/STY	1	1	STM1672		putative cyı	STY1392
1472	CHIP4395	STM/STY	1	1	STM0490	aes	acetyl esteı	STY0534
1473	CHIP1151	STM/STY	1	1	STM0622	citE	citrate lyası	STY0671
1474	CHIP1175	STM/STY	1	1	STM3750	yicJ	putative Gf	STY4043
1475	CHIP1191	STM/STY	1	1	STM1581	yddE	putative ph	STY1484
1476	CHIP2851	STM/STY	1	1	STM1716	sohB	putative pe	STY1334
1477	CHIP1217	STM/STY	1	1	STM1607		putative ou	STY1457
1478	CHIP2765	STM/STY	1	1	STM1561		putative ou	STY1502
1479	CHIP2781	STM/STY	1	0	STM1593	srfA	ssrAB activ	STY1472
1480	CHIP2797	STM/STY	1	1	STM1619		cryptic ami	STY1445
1481	CHIP2925	STM/STY	1	1	STM1883	purT	phosphorib	STY2089
1482	CHIP2845	STM/STY	1	1	STM1701	yciW	putative cyı	STY1351
1483	CHIP2847	STM/STY	1	1	STM1708	yciM	putative N-	STY1343
1484	CHIP4304	STM/STY	1	1	STM2677	ffh	4.5S-RNP ı	STY2864
1485	CHIP4232	STM/STY	1	1	STM3031		ail and omı	STY3179
1486	CHIP4248	STM specil	1	0	STM3082		putative zinc-binding dı	
1487	CHIP4360	STM/STY	1	1	STM0433	thiJ	4-methyl-5ı	STY0472
1488	CHIP4376	STM/STY	1	1	STM0457	cof	putative hy	STY0499
1489	CHIP2474	STM specil	1	0	STM3599		putative inner membra	
1490	CHIP4610	STM/STY	1	1	STM3050	yqfB	putative cyı	STY3206
1491	CHIP2514	STM/STY	1	1	STM3685	mtlA	PTS family	STY4111
1492	CHIP2546	STM/STY	1	1	STM3777		putative cyı	STY4007
1493	CHIP4203	STM/STY	1	1	STM2976	fucl	L-fucose is	STY3116
1494	CHIP4227	STM/STY	1	1	STM3025		putative cyı	STY3172
1495	CHIP4277	STM/STY	1	1	STM3142		putative fer	STY3313
1496	CHIP2477	STM/STY	1	1	STM3603	treF	cytoplasmı	STY4200
1497	CHIP4613	STM/STY	1	1	STM3104	yggW	putative ox	STY3257

1498	CHIP2517	STM/STY	1	1	STM3693	lldR	putative tra	STY4103
1499	CHIP2549	STM/STY	1	1	STM3780		putative fru	STY4003
1500	CHIP4302	STM/STY	1	1	STM2668		putative cyf	STY2855
1501	CHIP1636	STM/STY	1	1	STM2160	yehV	putative tra	STY2390
1502	CHIP1652	STM/STY	1	1	STM2082	rfbP	LPS side c	STY2291
1503	CHIP1668	STM/STY	1	1	STM2114	wcaB	putative ac	STY2327
1504	CHIP4568	STM/STY	1	1	STM2170	yohD	putative Dε	STY2400
1505	CHIP1900	STM/STY	1	1	STM3404	smg	putative cyf	STY4393
1506	CHIP2108	STM/STY	1	1	STM3607	yhjC	putative tra	STY4196
1507	CHIP1694	STM/STY	1	1	STM1811	ycgN	putative cyf	STY1941
1508	CHIP2102	STM/STY	1	1	STM3646	yiaE	2-keto-D-g	STY4156
1509	CHIP2118	STM/STY	1	1	STM3549		putative inr	STY4262
1510	CHIP2134	STM/STY	1	1	STM3326	mtgA	peptidoglyc	STY3505
1511	CHIP1966	STM/STY	1	1	STM4480	yjgQ	putative pe	STY4818
1512	CHIP1982	STM/STY	1	1	STM4322	yjdC	putative ba	STY4681
1513	CHIP2136	STM/STY	1	1	STM3309	yrbB	putative ST	STY3488
1514	CHIP2152	STM/STY	1	1	STM3244	tdcB	threonine c	STY3427
1515	CHIP2168	STM/STY	1	1	STM3146	hybD	putative prc	STY3317
1516	CHIP1609	STM/STY	1	1	STM2835	srID	glucitol (so	STY2956
1517	CHIP4509	STM specil	1	0	STM2003		pseudogene; frameshil	
1518	CHIP4525	STM/STY	0	0			STY2429	
1519	CHIP4527	STM/STY	1	1	STM2198		putative reϕ	STY2432
1520	CHIP4543	STM specil	1	0	STM2234		putative tail fiber assen	
1521	CHIP1683	STM/STY	1	1	STM2205	fruK	fructose-1-	STY2441
1522	CHIP1899	STM/STY	1	1	STM3403	yrdD	putative D†	STY4394
1523	CHIP1915	STM/STY	1	1	STM3434	rpsC	30S riboso	STY4364
1524	CHIP1931	STM/STY	1	1	STM3033		putative nu	STY3182
1525	CHIP0323	STM/STY	1	1	STM0874	mdaA	oxygen-ins	STY0907
1526	CHIP2230	STM/STY	1	1	STM3198		putative inr	STY3377
1527	CHIP2254	STM/STY	1	1	STM3091	galP	MFS family	STY3244
1528	CHIP2270	STM/STY	1	1	STM1078		putative cyf	STY1101
1529	CHIP3378	STM/STY	1	1	STM0804	moaC	molybdoptε	STY0838
1530	CHIP3410	STM/STY	1	1	STM0850	yliC	putative AE	STY0889
1531	CHIP0374	STM/STY	1	1	STM1091	sopB	Salmonella	STY1121
1532	CHIP3341	STM/STY	1	1	STM0745	tolQ	tol protein,	STY0791
1533	CHIP3373	STM/STY	1	1	STM0794	bioB	biotin syntf	STY0827
1534	CHIP3405	STM/STY	1	1	STM0841	ybiU	putative cyf	STY0880
1535	CHIP2194	STM/STY	1	1	STM3331	gltD	glutamate :	STY3511
1536	CHIP0327	STM/STY	1	1	STM3757	misL	putative au	STY4030
1537	CHIP4301	STM/STY	1	1	STM2665	yfiA	ribosome a	STY2853
1538	CHIP1493	STM/STY	1	1	STM2387	sixA	phosphohis	STY2619
1539	CHIP1479	STM/STY	1	1	STM4240	yjbJ	putative cyf	STY4436
1540	CHIP0458	STM/STY	1	1	STM3415	rpoA	RNA polymr	STY4383
1541	CHIP0626	STM/STY	1	1	STM1692	sapA	ABC super	STY1369
1542	CHIP1558	STM/STY	1	1	STM0462	glnK	regulatory	STY0506
1543	CHIP1816	STM/STY	1	1	STM4042A		putative br:	STY3832
1544	CHIP1875	STM/STY	1	1	STM0721		putative gly	STY0761
1545	CHIP0961	STM/STY	1	1	STM4141		putative cyf	STY3739a
1546	CHIP0993	STM specil	1	0	STM2439	yfeL	putative membrane cal	
1547	CHIP0996	STM specil	0	0	STM1011		Gifsy-2 prophage	
1548	CHIP3548	STM specil	1	0	STM4206		putative phage glucose	
1549	CHIP1212	STM/STY	1	0	STM2722		Fels-2 prophage: simil:	

1550	CHIP1134	STM/STY	1	1	STM1882	yebG	DNA dama	STY2088
1551	CHIP4030	STM/STY	0	0	STM2713		Fels-2 prophage: simil	
1552	CHIP4039	STM specil	1	0	STM2727		Fels-2 prophage: simil	
1553	CHIP4121	STM/STY	1	1	STM4088	yiiU	putative cyf	STY3782
1554	CHIP4179	STM/STY	1	1	STM2931	ygbQ	putative Se	STY3056
1555	CHIP3949	STM/STY	1	1	STM1376	lppB	putative mε	STY1746
1556	CHIP3942	STM/STY	1	1	STM1367	ydiH	putative cyf	STY1756
1557	CHIP3959	STM/STY	1	0	STM1447	ydhA	putative ou	STY1675
1558	CHIP0265	STM/STY	1	1	STM1056		Gifsy-2 pro	STY1077
1559	CHIP0243	STM/STY	1	1	STM2464	eutN	putative de	STY2701
1560	CHIP1398	STM/STY	1	1	STM0160	yacL	putative cyf	STY0182
1561	CHIP4663	STM/STY	1	0	STM4191		putative cyf	STY4408
1562	CHIP2913	STM/STY	1	1	STM1856		putative cyf	STY1988
1563	CHIP2898	STM/STY	1	1	STM1833		putative inr	STY1962
1564	CHIP2922	STM/STY	1	1	STM1875	yobA	putative ho	STY2081
1565	CHIP2917	STM/STY	1	1	STM1869		Homology	STY1043
1566	CHIP4710	STM/STY	1	1	STM1926		putative cyf	STY2135
1567	CHIP1056	STM specil	0	0	PSLT022		pseudogene; frameshii	
1568	CHIP1104	STM specil	1	0	PSLT095	traN	conjugative transfer: a	
1569	CHIP1073	STM specil	0	0	PSLT058		pseudogene; in-frame	
1570	CHIP1105	STM specil	1	0	PSLT096	trbE	conjugative transfer	
1571	CHIP1050	STM specil	1	0	PSLT003	repC	DNA replication	
1572	CHIP1098	STM specil	1	0	PSLT089	trbl	conjugative transfer	
1573	CHIP0944	none	0	0	R460027	stbB		
1574	CHIP0954	none	0	0	R460022	fip		
1575	CHIP4889	none	0	0	R460034	ccgD		
1576	CHIP4876	none	0	0	R460011	traA		
1577	CHIP4870	none	0	0	R460004	ORF2		
1578	CHIP4897	none	0	0	R460048	orfD		
1579	CHIP4801	STM/STY	0	0				
1580	CHIP4805	STM specil	0	0				
1581	CHIP4809	STM/STY	0	0				
1582	CHIP4813	STM specil	0	0				
1583	CHIP4817	STM specil	1	0	STM2614		Gifsy-1 prophage	
1584	CHIP4821	STM/STY	0	0				
1585	CHIP5189	STY specif	0	1				STY3071
1586	CHIP5119	STY specif	0	1				STY2060
1587	CHIP5135	STY specif	0	1				STY2076
1588	CHIP5240	STM/STY	0	0				STY3677
1589	CHIP5254	STY specif	0	1				STY3693
1590	CHIP5270	STY specif	0	1				STY3949
1591	CHIP5211	STY specif	0	1				STY3344
1592	CHIP5227	STY specif	0	1				STY3663
1593	CHIP5241	STY specif	0	1				STY3679
1594	CHIP5256	STY specif	0	0				
1595	CHIP5272	STM/STY	0	1				STY4036
1596	CHIP5015	STM/STY	0	1				STY1555
1597	CHIP5221	STY specif	0	1				STY3645
1598	CHIP5236	STY specif	0	1				STY3673
1599	CHIP5251	STY specif	0	0				STY3689
1600	CHIP5266	STY specif	0	1				STY3919
1601	CHIP4922	STY specif	0	1				STY0300

1602	CHIP4938	STY specif	0	1			STY0346
1603	CHIP5238	STM/STY	0	0			STY3675
1604	CHIP5171	STY specif	0	0			STY2882
1605	CHIP5187	STY specif	0	1			STY3069
1606	CHIP4924	STM/STY	0	1			STY0306
1607	CHIP4940	STY specif	0	1			STY0348
1608	CHIP4956	STY specif	0	1			STY1016
1609	CHIP5278	STM/STY	0	0			
1610	CHIP5291	STY specif	0	1			STY4412
1611	CHIP5314	STY specif	0	1			STY4547
1612	CHIP5411	STY specif	0	1			STY4823
1613	CHIP5426	STM/STY	0	1			STY4843
1614	CHIP5279	STM/STY	0	1			STY4143
1615	CHIP5348	STY specif	0	1			STY4588
1616	CHIP5282	STY specif	0	1			STY4207
1617	CHIP5296	STM/STY	0	1			STY4512
1618	CHIP5393	STY specif	0	1			STY4667
1619	CHIP5408	STM/STY	0	1			STY4810
1620	CHIP5423	STY specif	0	1			STY4837
1621	CHIP3264	STM/STY	1	1	STM3371	yhdE	putative int STY3551
1622	CHIP3296	STM specil	1	0	STM0657	ybeU	putative cytoplasmic pr
1623	CHIP3312	STM/STY	1	1	STM0691		putative pe STY0729
1624	CHIP2569	STM/STY	1	1	STM3822	torA	trimethylar STY3956
1625	CHIP0802	STM specil	1	0	STM3171	ygiK	putative integral memb
1626	CHIP0818	STM/STY	1	1	STM2020	cbiO	synthesis c STY2223
1627	CHIP2579	STM/STY	1	1	STM3834		putative tra STY3944
1628	CHIP2595	STM/STY	1	1	STM3857	pstS	ABC super STY3926
1629	CHIP0828	STM/STY	1	1	STM3787	uhpT	MFS family STY3995
1630	CHIP2643	STM/STY	1	0	STM0079	yaaU	putative Mf STY0089
1631	CHIP2667	STM/STY	1	1	STM0129	murC	L-alanine a STY0149
1632	CHIP2683	STM/STY	1	1	STM0163		pyridoxine STY0185
1633	CHIP2661	STM/STY	1	1	STM0120	yabC	putative S- STY0140
1634	CHIP3253	STM/STY	1	1	STM3345	rplM	50S riboso STY3525
1635	CHIP3269	STM/STY	1	1	STM3380	accC	acetyl CoA STY3560
1636	CHIP3285	STM/STY	1	1	STM0644	cobD	putative arr STY0695
1637	CHIP3301	STM/STY	1	1	STM0665	gltI	ABC super STY0710
1638	CHIP3317	STM/STY	1	1	STM0698	pgm	phosphogl STY0736
1639	CHIP2719	STM/STY	1	1	STM0227	fabZ	(3R)-hydro STY0250
1640	CHIP2735	STM/STY	1	1	STM1509	ydfZ	putative cyf STY1552
1641	CHIP4000	STM/STY	1	1	STM2098	galF	putative glt STY2308
1642	CHIP4016	STM/STY	1	1	STM2125	yegD	putative he STY2338
1643	CHIP3744	STM/STY	1	1	STM0255	yafB	2,5-diketo- STY0276
1644	CHIP3768	STM/STY	1	1	STM0300	safB	putative fir STY0335
1645	CHIP4018	STM/STY	1	1	STM2129	yegB	putative Mf STY2342
1646	CHIP4034	STM/STY	1	1	STM2719		Fels-2 proç STY4624
1647	CHIP4058	STM specil	1	0	STM2751		putative PTS enzyme I
1648	CHIP4074	STM specil	1	0	STM2767		putative Superfamily I I
1649	CHIP4090	STM/STY	1	1	STM2795	ygaU	putative Ly STY2915
1650	CHIP3818	STM/STY	1	0	STM1099	hpaB	4-hydroxyp STY1131
1651	CHIP4068	STM specil	1	0	STM2761		putative inner membra
1652	CHIP4084	STM/STY	1	0	STM2786		tricarboxylic transport
1653	CHIP3812	STM/STY	1	0	STM1089		putative inner membra



1654	CHIP2388	STM/STY	1	1	STM3419	rpmJ	50S riboso	STY4379
1655	CHIP2404	STM/STY	1	1	STM3466	crp	catabolite ε	STY4331
1656	CHIP2420	STM/STY	1	1	STM3499	yhgE	putative inr	STY4297
1657	CHIP3814	STM/STY	1	1	STM1094	pipD	Pathogenic	STY1126
1658	CHIP3830	STM/STY	1	1	STM1127		putative tra	STY1163
1659	CHIP3846	STM/STY	1	1	STM1161	yceP	putative cyf	STY1199
1660	CHIP3862	STM/STY	1	1	STM1207	ycfM	putative ou	STY1247
1661	CHIP3878	STM/STY	1	1	STM1239		putative cyf	STY1893
1662	CHIP3894	STM/STY	1	1	STM1280	yeaL	putative inr	STY1838
1663	CHIP3496	STM/STY	1	1	STM0980	cmk	cytidine mc	STY0980
1664	CHIP3529	STM specil	1	0	STM1038		Gifsy-2 prophage; prot	
1665	CHIP3553	STM specil	1	0	STM4211		putative phage tail prot	
1666	CHIP3569	STM/STY	1	1	STM4245	qor	quinone ox	STY4441
1667	CHIP3585	STM/STY	1	1	STM4282	nrfG	part of forr	STY4481
1668	CHIP4177	STM/STY	1	1	STM2928	ygbO	paral putati	STY3053
1669	CHIP3563	STM/STY	1	1	STM4223	yjbF	putative ou	STY4419
1670	CHIP3579	STM/STY	1	1	STM4270		putative tra	STY4468
1671	CHIP3595	STM/STY	1	1	STM4306		putative an	STY4506
1672	CHIP3043	STM/STY	1	1	STM2378	fabB	3-oxoacyl-[	STY2609
1673	CHIP3067	STM/STY	1	1	STM2435	pdxK	pyridoxal-p	STY2672
1674	CHIP3467	STM specil	1	0	STM0924		Fels-1 prophage; putat	
1675	CHIP4102	STM/STY	1	1	STM4034	fdhE	putative for	STY3843
1676	CHIP3550	STM specil	1	0	STM4208		putative cytoplasmic pr	
1677	CHIP3566	STM/STY	1	1	STM4235	plsB	glycerolphc	STY4431
1678	CHIP4166	STM/STY	1	1	STM2912		putative tra	STY3037
1679	CHIP4190	STM/STY	1	1	STM2950		putative mε	STY3078
1680	CHIP3446	STM specil	1	0	STM0902		Fels-1 prophage	
1681	CHIP2300	STM/STY	1	1	STM1315	celD	transcriptio	STY1798
1682	CHIP0241	STM/STY	1	1	STM2466	eutD	putative ph	STY2702
1683	CHIP2340	STM/STY	1	1	STM1232	purB	adenylosuc	STY1272
1684	CHIP2364	STM/STY	1	1	STM1432	ydhO	putative ce	STY1690
1685	CHIP2953	STM/STY	1	0	STM1967		putative 50	STY2175
1686	CHIP2977	STM/STY	1	1	STM2256	napB	periplasmic	STY2482
1687	CHIP3651	STM specil	1	0	STM4424		putative endonuclease	
1688	CHIP3667	STM/STY	1	1	STM4447		putative pe	STY4786
1689	CHIP3011	STM/STY	1	1	STM2321	nuol	NADH deh	STY2551
1690	CHIP3027	STM/STY	1	1	STM2348	yfcF	putataive g	STY2578
1691	CHIP0204	STM/STY	1	1	STM1955	fliZ	putative re	STY2163
1692	CHIP0228	STM specil	1	0	STM0196	stfC	putative fimbrial outer r	
1693	CHIP0198	STM/STY	1	1	STM1927	yecG	putative un	STY2136
1694	CHIP2297	STM/STY	1	1	STM1307	astE	succinylglu	STY1807
1695	CHIP2313	STM/STY	1	1	STM1448	pdxH	pyridoxine	STY1674
1696	CHIP0254	STM/STY	1	1	STM4064	cdh	CDP-diacyl	STY3807
1697	CHIP0270	STM/STY	1	1	STM2863	sitC	Salmonella	STY2985
1698	CHIP2369	STM/STY	1	1	STM1452	ydgR	putative PC	STY1670
1699	CHIP0256	STM/STY	1	0	STM2513	shdA	similar to t	STY2755
1700	CHIP2355	STM/STY	1	1	STM1346	ydiE	putative cyf	STY1764
1701	CHIP2371	STM/STY	1	1	STM1454	ydgQ	putative N/	STY1668
1702	CHIP0489	STM/STY	1	1	STM1430	purR	transcriptio	STY1692
1703	CHIP3944	STM/STY	1	1	STM1371	sufC	putative AE	STY1752
1704	CHIP0537	STM/STY	0	0			STY2990	
1705	CHIP3954	STM/STY	1	1	STM1434	rnt	RNase T, c	STY1688

1706	CHIP3978	STM/STY	1	1	STM1482	ydgF	putative mε	STY1585
1707	CHIP3994	STM specil	1	0	STM2088	rfbX	LPS side chain defect:	
1708	CHIP1326	STM/STY	1	1	STM3800	dsdC	transcriptio	STY3979
1709	CHIP1438	STM/STY	1	1	STM2647	ung	uracil-DNA	STY2840
1710	CHIP1454	STM/STY	1	1	STM0397	phoB	response rε	STY0432
1711	CHIP1368	STM/STY	1	1	STM0245	yaeC	putative ou	STY0272
1712	CHIP1384	STM/STY	1	1	STM0100		putative cyf	STY0117
1713	CHIP1400	STM/STY	1	1	STM0070	caiD	carnitine ra	STY0080
1714	CHIP0486	STM/STY	1	1	STM1950	sdiA	transcriptio	STY2158
1715	CHIP0502	STM/STY	1	1	STM1683	tyrR	transcriptio	STY1378
1716	CHIP0542	STM/STY	1	1	STM3563	livH	ABC super	STY4249
1717	CHIP3983	STM/STY	1	1	STM1490		putative ch	STY1574
1718	CHIP1323	STM/STY	1	1	STM3793		putative su	STY3989
1719	CHIP1443	STM/STY	1	1	STM0357	mod	DNA methy	STY0388
1720	CHIP1459	STM/STY	1	1	STM0416	ribD	bifunctiona	STY0455
1721	CHIP1475	STM/STY	1	1	STM4233	ubiC	chorismate	STY4429
1722	CHIP1403	STM/STY	1	1	STM0097	polB	DNA polymr	STY0112
1723	CHIP3201	STM/STY	1	1	STM3239	yhaO	putative H/	STY3421
1724	CHIP2077	STM/STY	1	1	STM3481	trpS	tryptophan	STY4315
1725	CHIP0971	STM/STY	1	1	STM0345		putative inr	STY0378
1726	CHIP1542	STM/STY	1	1	STM2442	cysW	ABC super	STY2679
1727	CHIP1566	STM/STY	1	1	STM0507	ybbA	putative AE	STY0553
1728	CHIP1598	STM/STY	1	1	STM0605	ybdN	putative 3'-	STY0649
1729	CHIP3172	STM/STY	1	1	STM2651	yfiQ	putative ac	STY2844
1730	CHIP3188	STM/STY	1	1	STM3204	cca	tRNA nucle	STY3383
1731	CHIP3204	STM/STY	1	1	STM3248	garR	tartronate ε	STY3430
1732	CHIP3220	STM/STY	1	1	STM3276	yhbW	putative alk	STY3459
1733	CHIP0974	STM specil	1	0	STM1043		Gifsy-2 prophage; attac	
1734	CHIP0998	STM/STY	0	1	STM1013		Gifsy-2 pro	STY1021
1735	CHIP1531	STM/STY	1	1	STM2529		putative an	STY2774
1736	CHIP1547	STM/STY	1	1	STM2547		putative hy	STY2793
1737	CHIP1587	STM/STY	1	1	STM0533	purK	phosphorib	STY0581
1738	CHIP3143	STM specil	1	0	STM2599		Gifsy-1 prophage	
1739	CHIP2019	STM/STY	1	1	STM4551		putative diç	STY4904
1740	CHIP2035	STM/STY	1	1	STM3707	yibD	putative gly	STY4088
1741	CHIP0691	STM/STY	1	1	STM2353	hisQ	ABC super	STY2583
1742	CHIP0619	STM/STY	1	1	STM0012	dnaK	chaperone	STY0012
1743	CHIP0635	STM/STY	1	1	STM1723	trpE	anthranilatε	STY1328
1744	CHIP0667	STM/STY	1	1	STM2809	proV	ABC super	STY2934
1745	CHIP1814	STM/STY	1	1	STM4051		putative ou	STY3821
1746	CHIP1846	STM/STY	1	1	STM0646	holA	DNA polymr	STY0697
1747	CHIP0750	STM/STY	1	1	STM2462	eutJ	paral putati	STY2699
1748	CHIP1801	STM/STY	1	1	STM4125	oxyR	regulatory	STY3749
1749	CHIP1833	STM/STY	1	1	STM0779	modE	transcriptio	STY0812
1750	CHIP1865	STM/STY	1	1	STM0770		putative AE	STY0802
1751	CHIP0583	STM/STY	1	1	STM2806	nrdI	stimulates	STY2931
1752	CHIP0703	STM/STY	1	1	STM1339	himA	integration	STY1771
1753	CHIP1276	STM/STY	1	1	STM3379	accB	acetylCoA	STY3559
1754	CHIP1292	STM/STY	1	1	STM0053		putative tra	STY0062
1755	CHIP1308	STM/STY	1	1	STM0036		putative anγ	STY0043
1756	CHIP4689	STM/STY	1	0	STM1245		pseudogen	STY1880
1757	CHIP4713	STM/STY	1	1	STM2010		putative cyf	STY2212

1758	CHIP0154	STM/STY	1	1	STM3868	atpH	membrane	STY3910
1759	CHIP0188	STM/STY	1	1	STM2049	pduN	Propanedic	STY2254
1760	CHIP1231	STM/STY	1	1	STM4307		putative an	STY4508
1761	CHIP1247	STM/STY	1	1	STM1909	argS	arginine tR	STY2117
1762	CHIP1279	STM/STY	1	1	STM3367	yhcS	putative tra	STY3547
1763	CHIP0468	STM/STY	1	1	STM3718	rfal	UDP-D-gal	STY4077
1764	CHIP0101	STM/STY	1	1	STM4329	mopB	chaperone	STY4689
1765	CHIP0478	STM/STY	1	1	STM1141	csgE	curli produ	STY1178
1766	CHIP0111	STM/STY	1	1	STM4025	yihW	putative gly	STY3853
1767	CHIP0127	STM/STY	1	1	STM4170	hupA	DNA-bindir	STY3715
1768	CHIP4726	STM/STY	1	1	STM2434		putative cyI	STY2671
1769	CHIP0183	STM/STY	1	1	STM2044	pduH	Propanedic	STY2249
1770	CHIP1226	STM/STY	1	1	STM4296	adi	arginine de	STY4495
1771	CHIP0081	STM/STY	1	1	STM3898	yifE	putative Ly	STY3707
1772	CHIP0873	STM/STY	1	1	STM1961	fliS	flagellar bic	STY2169
1773	CHIP0889	STM/STY	1	1	STM1713	cysB	transcriptio	STY1337
1774	CHIP0905	STM/STY	1	1	STM4247	alr	alanine rac	STY4443
1775	CHIP0921	STM/STY	1	1	STM3321	yhbH	putative sig	STY3500
1776	CHIP0937	STM/STY	1	1	STM0429	phnS	2-aminoetr	STY0468
1777	CHIP0012	STM/STY	1	1	STM3976	yigW	putative hy	STY3583
1778	CHIP0028	STM/STY	1	1	STM3959	rhtC	RhtB familj	STY3600
1779	CHIP0044	STM/STY	1	1	STM3942		putative cyI	STY3617
1780	CHIP1958	STM/STY	1	1	STM4443		putative inr	STY4782
1781	CHIP2611	STM/STY	1	1	STM0006	yaaJ	putative AC	STY0006
1782	CHIP0876	STM/STY	1	1	STM1182	flgJ	flagellar bic	STY1221
1783	CHIP0870	STM/STY	1	1	STM1969	fliF	flagellar bic	STY2177
1784	CHIP0886	STM/STY	1	1	STM2948	cysJ	sulfite redu	STY3076
1785	CHIP1737	STM/STY	1	1	STM3000	ppdA	prepilin peç	STY3138
1786	CHIP1761	STM/STY	1	1	STM3022		putative tra	STY3167
1787	CHIP1777	STM/STY	1	1	STM4089	menG	putative mç	STY3781
1788	CHIP0015	STM/STY	1	1	STM3972	aarF	putative reç	STY3587
1789	CHIP1196	STM/STY	1	1	STM1588	yncC	putative reç	STY1477
1790	CHIP2752	STM/STY	1	1	STM1544	pqaA	PhoPQ-reç	STY1518
1791	CHIP2768	STM/STY	1	1	STM1566	sfcA	NAD-linkec	STY1494
1792	CHIP2888	STM/STY	1	1	STM1812	ycgM	putative Fu	STY1942
1793	CHIP2904	STM/STY	1	1	STM1843		putative tra	STY1974
1794	CHIP2928	STM/STY	1	1	STM1887	yebK	putative tra	STY2095
1795	CHIP2938	STM/STY	1	1	STM1902	yecD	putative isc	STY2110
1796	CHIP4403	STM/STY	1	1	STM0506	tesA	multifunctic	STY0552
1797	CHIP4419	STM/STY	1	1	STM0530	ylbE	putative cyI	STY0578
1798	CHIP4443	STM/STY	1	0	STM0577		putative transport prote	
1799	CHIP1199	STM/STY	1	1	STM1642	acpD	acyl carrier	STY1427
1800	CHIP2755	STM/STY	1	1	STM1548		putative S-	STY1513
1801	CHIP2853	STM/STY	1	1	STM1720	yciO	putative tra	STY1330
1802	CHIP2869	STM/STY	1	1	STM1766	narX	sensory hiç	STY1286
1803	CHIP2885	STM/STY	1	1	STM1805	fadR	negative re	STY1934
1804	CHIP2909	STM/STY	1	1	STM1850	yebU	paral putati	STY1981
1805	CHIP2829	STM/STY	1	1	STM1665		putative cyI	STY1399
1806	CHIP4390	STM/STY	1	1	STM0481	priC	primosoma	STY0525
1807	CHIP4288	STM/STY	1	1	STM3166		putative ca	STY3340
1808	CHIP4312	STM/STY	1	1	STM2690		putative ou	STY2876
1809	CHIP4328	STM/STY	1	1	STM4530	yjiA	putative co	STY4888

1810	CHIP4344	STM/STY	1	1	STM0392	rdgC	putative ex	STY0425
1811	CHIP4272	STM/STY	1	1	STM3126		putative arr	STY3295
1812	CHIP4576	STM/STY	1	1	STM2567	yfhD	putative pe	STY2813
1813	CHIP4594	STM/STY	1	1	STM2784	tctE	tricarboxyli	STY2903
1814	CHIP4618	STM/STY	1	1	STM3163	yqhC	putative tra	STY3335
1815	CHIP4634	STM specil	1	0	STM0840	ybiV(2)	putative hydrolase of	
1816	CHIP2554	STM/STY	1	1	STM3803	yidF	putative cyf	STY3976
1817	CHIP4299	STM/STY	1	1	STM2663	yfiO	putative lip	STY2852
1818	CHIP4323	STM/STY	0	0	STM2706		Fels-2 proç	STY4611
1819	CHIP4581	STM/STY	1	1	STM2814	emrA	multidrug r	STY2940
1820	CHIP4597	STM/STY	1	1	STM2804		putative cyf	STY2928
1821	CHIP2501	STM/STY	1	1	STM3663	bax	gene trans	STY4135
1822	CHIP2525	STM/STY	1	1	STM3724	kdtA	3-deoxy-D-	STY4070
1823	CHIP4198	STM/STY	1	1	STM2971	sdaB	L-serine de	STY3110
1824	CHIP4214	STM/STY	1	1	STM2997	ppdC	prepilin peç	STY3135
1825	CHIP4520	STM/STY	1	1	STM2187	yeiA	putative diI	STY2418
1826	CHIP4536	STM/STY	1	1	STM2223	yejH	putative AT	STY2460
1827	CHIP4552	STM/STY	1	1	STM2246	narP	response r	STY2472
1828	CHIP1692	STM/STY	1	1	STM1820	yeaZ	putative mc	STY1950
1829	CHIP1908	STM/STY	1	1	STM3426	rpsH	30S riboso	STY4372
1830	CHIP1924	STM/STY	1	1	STM0944	yljA	putative cyf	STY0942
1831	CHIP1894	STM/STY	1	1	STM0935	poxB	pyruvate d	STY0931
1832	CHIP1918	STM/STY	1	1	STM3437	rplB	50S riboso	STY4361
1833	CHIP1934	STM/STY	1	1	STM4345	yjeM	putative AF	STY4705
1834	CHIP1950	STM/STY	1	1	STM4391	rpsF	30S riboso	STY4747
1835	CHIP2158	STM/STY	1	1	STM3201	glnE	adenylyl tr	STY3380
1836	CHIP2174	STM/STY	1	1	STM3131		putative cyf	STY3300
1837	CHIP1952	STM/STY	1	1	STM4395	yifZ	putative pe	STY4751
1838	CHIP1968	STM/STY	1	1	STM4510		putative as	STY4866
1839	CHIP1984	STM/STY	1	1	STM4325	dcuA	Dcu family,	STY4684
1840	CHIP4493	STM/STY	1	1	STM0375	ampH	penicillin- b	STY0407
1841	CHIP1633	STM/STY	1	1	STM2144	yegV	putative su	STY2373
1842	CHIP1649	STM/STY	1	1	STM2219	yejF	putative AT	STY2455
1843	CHIP1651	STM/STY	1	1	STM2227	yejL	putative cyf	STY2465
1844	CHIP1667	STM/STY	1	1	STM2111	wcaE	putative tra	STY2323
1845	CHIP4567	STM/STY	1	1	STM2169	yohC	paral putati	STY2399
1846	CHIP2091	STM/STY	1	1	STM3687	mtlR	repressor f	STY4109
1847	CHIP2107	STM/STY	1	1	STM3608	yhjD	putative tR	STY4195
1848	CHIP2123	STM/STY	1	1	STM3511	yhgl	putative Th	STY4285
1849	CHIP2214	STM/STY	1	1	STM3236	yhaK	putative cyf	STY3416
1850	CHIP0347	STM/STY	1	1	STM1889	msbB	myristoyl tr	STY2097
1851	CHIP0371	STM/STY	1	1	STM1409	ssaJ	Secretion s	STY1711
1852	CHIP3330	STM/STY	1	1	STM0720		putative gly	STY0760
1853	CHIP3386	STM/STY	1	1	STM0814	ybhQ	putative inr	STY0849
1854	CHIP3418	STM specil	1	0	STM0859		putative transcriptional	
1855	CHIP2265	STM/STY	1	1	STM1062	uup	putative AT	STY1083
1856	CHIP3349	STM specil	1	0	STM0761		fumarate hydratase Cl	
1857	CHIP3381	STM/STY	1	1	STM0807	ybhL	putative pe	STY0841
1858	CHIP3413	STM specil	1	0	STM0854		putative cytoplasmic pr	
1859	CHIP0311	STM/STY	1	1	STM1383	ttrA	Tetrathion	STY1738
1860	CHIP2218	STM/STY	1	1	STM3230	yqjE	putative inr	STY3410
1861	CHIP3630	STM/STY	1	1	STM4382	yjfR	putative Zn	STY4738

1862	CHIP0272	STM specil	0	0	STM1867	pagK	PhoPQ-activated gene
1863	CHIP0357	STM/STY	1	1	STM1396	ssaE	Secretion s STY1724
1864	CHIP1449	STM/STY	1	1	STM0379	yaiZ	putative inr STY0411
1865	CHIP1491	STM/STY	1	1	STM2390	yfcZ	putative cyf STY2622
1866	CHIP0670	STM/STY	1	1	STM3471	yhfG	putative cyf STY4325
1867	CHIP0816	STM/STY	1	1	STM2022	cblN	synthesis c STY2225
1868	CHIP0935	STM/STY	1	1	STM0431	phnW	2-aminoetr STY0470
1869	CHIP1951	STM/STY	1	1	STM4393	rpsR	30S riboso STY4749
1870	CHIP1913	STM/STY	1	1	STM3432	rpmC	50S riboso STY4366
1871	CHIP1961	STM/STY	1	1	STM4449		putative he STY4788
1872	CHIP4481	STM/STY	1	1	STM0349		putative ou STY0383
1873	CHIP2251	STM/STY	1	1	STM3095	gshB	glutathione STY3248
1874	CHIP2332	STM/STY	1	1	STM1162	dinI	DNA dama STY1200
1875	CHIP4660	STM/STY	1	1	STM2906		putative cyf STY3029
1876	CHIP4645	STM/STY	1	0	STM3806		pseudogene; frameshii
1877	CHIP4669	STM specil	1	0	STM4214		putative cytoplasmic pr
1878	CHIP4646	STM/STY	1	1	STM3463	yheU	putative cyf STY4334
1879	CHIP0098	STM/STY	1	1	STM0448	clpP	proteolytic STY0490
1880	CHIP0173	STM/STY	1	1	STM1243		homology v STY1881
1881	CHIP3902	STM/STY	1	1	STM1291	yeaA	putative do STY1824
1882	CHIP3903	STM/STY	1	1	STM1293	pncA	nicotinamic STY1821
1883	CHIP4329	STM/STY	1	1	STM4558	rimI	modificatio STY4908
1884	CHIP2608	STM/STY	1	1	STM3886	rbsR	transcriptio STY3891
1885	CHIP2920	STM/STY	1	1	STM1873		putative pe STY2079
1886	CHIP4672	STM/STY	1	1	STM4276		putative cyf STY4474
1887	CHIP4688	STM/STY	1	1	STM0727		putative cyf STY0770
1888	CHIP4721	STM/STY	1	1	STM2161		putative inr STY2391
1889	CHIP4731	STM/STY	1	1	STM2329		putative cyf STY2559
1890	CHIP2887	STM/STY	1	1	STM1809		putative cyf STY1938
1891	CHIP1072	STM specil	1	0	PSLT057		putative cytoplasmic pr
1892	CHIP1112	STM specil	1	0	PSLT104	traD	conjugative transfer: D
1893	CHIP1081	STM specil	1	0	PSLT067		putative cytoplasmic pr
1894	CHIP1113	STM specil	0	0	PSLT105	trbH	conjugative transfer
1895	CHIP1066	STM specil	1	0	PSLT043		putative phosphoribulo
1896	CHIP1106	STM specil	1	0	PSLT097	traF	conjugative transfer: as
1897	CHIP0945	none	0	0	R460028	stbC	
1898	CHIP1008	none	0	0	R460029	orfD	
1899	CHIP4896	none	0	0	R460042	repA	
1900	CHIP4883	none	0	0	R460019	traF	
1901	CHIP4877	none	0	0	R460012	traB	
1902	CHIP4904	none	0	0	R460057		
1903	CHIP4802	STM/STY	0	0			
1904	CHIP4806	STM/STY	1	1	STM0701	speF	ornithine dε STY0739
1905	CHIP4810	STM specil	0	0			
1906	CHIP4814	STM/STY	0	0			
1907	CHIP4818	STM specil	0	0			
1908	CHIP4822	STM/STY	0	0			
1909	CHIP5104	STY specif	0	1			STY2044
1910	CHIP5209	STY specif	0	1			STY3292
1911	CHIP5225	STY specif	0	1			STY3661
1912	CHIP5159	STY specif	0	0			STY2420
1913	CHIP5173	STY specif	0	0			STY2884

1914	CHIP4910	STY specif	0	1			STY0114
1915	CHIP5129	STY specif	0	1			STY2070
1916	CHIP5145	STM/STY	0	1			STY2345
1917	CHIP5161	STM/STY	0	0			
1918	CHIP5175	STY specif	0	0			STY2886
1919	CHIP4912	STM/STY	0	1			STY0159
1920	CHIP4928	STY specif	0	1			STY0313
1921	CHIP5139	STM/STY	0	1			STY2203
1922	CHIP5155	STY specif	0	1			STY2361
1923	CHIP5169	STY specif	0	1			STY2879
1924	CHIP5185	STY specif	0	1			STY3067
1925	CHIP5017	STY specif	0	1			STY1592
1926	CHIP5033	STY specif	0	1			STY1609
1927	CHIP5157	STY specif	0	1			STY2363
1928	CHIP5260	STY specif	0	1			STY3762
1929	CHIP5275	STM/STY	0	0			
1930	CHIP5019	STY specif	0	1			STY1594
1931	CHIP5035	STY specif	0	1			STY1611
1932	CHIP5050	STY specif	0	1			STY1627
1933	CHIP5366	STM/STY	0	0			
1934	CHIP5299	STY specif	0	1			STY4523
1935	CHIP5322	STY specif	0	1			STY4558
1936	CHIP5336	STY specif	0	1			STY4575
1937	CHIP5352	STY specif	0	1			STY4592
1938	CHIP5367	STM/STY	1	1	STM2712	Fels-2 proj	STY4617
1939	CHIP5430	STY specif	0	1			STY4852
1940	CHIP5370	STM/STY	0	0			
1941	CHIP5382	STY specif	0	1			STY4650
1942	CHIP5319	STY specif	0	1			STY4553
1943	CHIP5333	STY specif	0	1			STY4572
1944	CHIP5349	STY specif	0	1			STY4589
1945	CHIP2696	STM/STY	1	1	STM0180	panD	aspartate 1 STY0198
1946	CHIP2728	STM/STY	1	1	STM0244	rceF	regulator in STY0271
1947	CHIP2744	STM/STY	1	0	STM1530		putative ou STY1532
1948	CHIP0786	STM/STY	1	1	STM1718	btuR	cob(I)alami STY1332
1949	CHIP2593	STM/STY	1	1	STM3855	pstA	ABC super STY3928
1950	CHIP2609	STM/STY	1	1	STM3887	yieO	putative Mf STY3889
1951	CHIP0796	STM/STY	1	1	STM4580	nadR	three acitiv STY4927
1952	CHIP0812	STM/STY	1	1	STM2026	cbiJ	synthesis c STY2231
1953	CHIP0836	STM/STY	1	1	STM3448	rpsL	30S riboso STY4350
1954	CHIP0860	STM/STY	1	1	STM2451	hemF	coproporpt STY2688
1955	CHIP3243	STM/STY	1	1	STM3319	yhbG	putative AE STY3498
1956	CHIP3259	STM/STY	1	1	STM3358		putative reç STY3538
1957	CHIP2669	STM/STY	0	0			STY0155
1958	CHIP2685	STM/STY	1	1	STM0168	yack	putative mł STY0190
1959	CHIP2701	STM/STY	1	1	STM0187	sfsA	regulator fc STY0212
1960	CHIP2717	STM/STY	1	1	STM0223	yaeL	putative mε STY0246
1961	CHIP2733	STM/STY	1	1	STM1507	ydfJ	putative tra STY1554
1962	CHIP2749	STM/STY	1	1	STM1538		putative hy STY1525
1963	CHIP3295	STM specif	1	0	STM0656	ybeS	putative molecular cha
1964	CHIP3319	STM/STY	0	0			
1965	CHIP3712	STM specif	1	0	STM4538		putative PTS permeas

1966	CHIP4024	STM/STY	1	1	STM2138		putative cyf	STY2366
1967	CHIP4040	STM specil	1	0	STM2730		Fels-2 prophage: simil	
1968	CHIP4064	STM specil	1	0	STM2757		putative cytoplasmic pr	
1969	CHIP3730	STM/STY	1	1	STM4578	serB	3-phospho: STY4925	
1970	CHIP3746	STM/STY	1	1	STM0260	dniR	transcriptio	STY0281
1971	CHIP3770	STM/STY	1	1	STM0310	ghmA	phosphohe	STY0355
1972	CHIP3786	STM specil	1	0	STM0333		putative transcriptional	
1973	CHIP3802	STM/STY	1	1	STM1072	yccR	putative D†	STY1094
1974	CHIP2378	STM/STY	1	1	STM1492		putative bir	STY1572
1975	CHIP3780	STM specil	1	0	STM0327		putative cytoplasmic pr	
1976	CHIP3796	STM/STY	1	1	STM1059	ycbW	putative cyf	STY1080
1977	CHIP2372	STM/STY	1	1	STM1455	ydgP	putative Ne	STY1667
1978	CHIP3836	STM/STY	1	1	STM1137	ycdY	paral putati	STY1174
1979	CHIP3852	STM/STY	1	1	STM1189	yceF	putative int†	STY1228
1980	CHIP3868	STM/STY	1	0	STM1215	ycfS	putative periplasmic pr	
1981	CHIP2374	STM/STY	1	1	STM1459		putative ox	STY1663
1982	CHIP2390	STM/STY	1	1	STM3424	rplR	50S riboso	STY4374
1983	CHIP2406	STM/STY	1	1	STM3468	argD	acetylornit†	STY4328
1984	CHIP2422	STM/STY	1	1	STM3505	feoA	ferrous iror	STY4291
1985	CHIP2438	STM specil	0	0				
1986	CHIP2454	STM specil	1	0	STM3558		homology to death -on-	
1987	CHIP3504	STM/STY	1	1	STM0992	mukF	mukF prote	STY0994
1988	CHIP4105	STM/STY	1	1	STM4054		putative dic	STY3817
1989	CHIP4129	STM/STY	1	1	STM4104		putative 5'-	STY3765
1990	CHIP4145	STM/STY	1	1	STM4128	yijD	putative inr	STY3746
1991	CHIP4161	STM/STY	1	1	STM2905		putative ac	STY3027
1992	CHIP4185	STM specil	1	0	STM2940		putative cytoplasmic pr	
1993	CHIP4139	STM/STY	1	1	STM4117	yijO	paral putati	STY3756
1994	CHIP4155	STM specil	1	0	STM2865	avrA	putative inner membra	
1995	CHIP4171	STM/STY	1	1	STM2920		putative tra	STY3045
1996	CHIP3051	STM/STY	1	1	STM2392	vacJ	lipoprotein	STY2624
1997	CHIP3451	STM specil	1	0	STM0908		Fels-1 prophage	
1998	CHIP3091	STM/STY	1	1	STM2493	perM	putative Pe	STY2734
1999	CHIP3534	STM/STY	1	1	STM4185	aceK	isocitrate d	STY4403
2000	CHIP4126	STM/STY	1	1	STM4100	metB	cystathionii	STY3769
2001	CHIP4142	STM/STY	1	1	STM4120	argE	acetylornit†	STY3753
2002	CHIP4174	STM/STY	1	0	STM2925	nlpD	lipoprotein	STY3050
2003	CHIP3046	STM/STY	1	1	STM2381	yfcM	putative cyf	STY2613
2004	CHIP3070	STM/STY	1	1	STM2445	ucpA	putative ox	STY2682
2005	CHIP0225	STM/STY	0	1	STM2241	sspH2	Leucine-ric	STY2467
2006	CHIP2324	STM/STY	1	1	STM1100	hpaR	4-hydroxyp	STY1132
2007	CHIP2348	STM/STY	1	1	STM1301		putative m†	STY1813
2008	CHIP3617	STM/STY	1	1	STM4350	orn	oligoribonu	STY4710
2009	CHIP3633	STM/STY	1	1	STM4386	sgaH	putative he	STY4742
2010	CHIP3657	STM specil	1	0	STM4431		puttive thiamine pyropt	
2011	CHIP2979	STM/STY	1	1	STM2260	napD	periplasmic	STY2486
2012	CHIP3675	STM specil	1	0	STM4483	idnO	5-keto-D-gluconate-5-r	
2013	CHIP3691	STM/STY	1	1	STM4500	yjhP	putative S†	STY4856
2014	CHIP3707	STM/STY	1	1	STM4533	tsr	methyl-acc	STY4892
2015	CHIP2287	STM/STY	1	0	STM1221	cobB	putative nic	STY1261
2016	CHIP2311	STM/STY	1	1	STM1440	sodC	copper/zinc	STY1682
2017	CHIP2281	STM/STY	0	0	STM1148	ymdC	putative phospholipase	

2018	CHIP0222	STM/STY	1	1	STM3442	hopD	leader pepI	STY4356
2019	CHIP0238	STM/STY	1	1	STM2469	eutP	putative etI	STY2705
2020	CHIP2337	STM/STY	1	1	STM1223	potC	ABC super	STY1263
2021	CHIP2353	STM/STY	1	1	STM1326	pfkB	6-phosphoI	STY1785
2022	CHIP3622	STM/STY	1	1	STM4370	yjfl	putative cyI	STY4727
2023	CHIP2339	STM/STY	1	1	STM1226	potA	ABC super	STY1266
2024	CHIP0280	STM/STY	1	1	STM0021	bcfA	fimbrial sut	STY0024
2025	CHIP3904	STM/STY	1	1	STM1297	selD	selenophos	STY1817
2026	CHIP3920	STM/STY	1	1	STM1335	rpmI	50S riboso	STY1776
2027	CHIP3952	STM/STY	1	1	STM1429	ydhB	putative tra	STY1693
2028	CHIP0545	STM/STY	1	1	STM3560	livF	ABC super	STY4252
2029	CHIP0531	STM/STY	1	1	STM0112	leuB	3-isopropyl	STY0131
2030	CHIP0555	STM/STY	1	1	STM0689	citA	citrate-prot	STY0727
2031	CHIP0571	STM/STY	1	1	STM4231	lamB	phage lamI	STY4427
2032	CHIP1422	STM/STY	1	1	STM3883	rbsC	ABC super	STY3895
2033	CHIP1350	STM/STY	1	1	STM0203	yadQ	putative ClI	STY0225
2034	CHIP1462	STM/STY	1	1	STM0452	cypD	peptidyl prc	STY0494
2035	CHIP1464	STM/STY	1	1	STM0403	yajB	putative cyI	STY0441
2036	CHIP1480	STM/STY	1	1	STM4242		putative ou	STY4438
2037	CHIP1496	STM/STY	1	1	STM2372		putative tra	STY2603
2038	CHIP3917	STM/STY	1	1	STM1324		putative cyI	STY1787
2039	CHIP3933	STM specil	1	0	STM1355	ydiP	putative transcription r	
2040	CHIP3973	STM/STY	1	1	STM1472		putative pe	STY1650
2041	CHIP3991	STM/STY	1	1	STM2079	wzzB	regulator o	STY2288
2042	CHIP1419	STM/STY	1	1	STM3851	yieG	putative xa	STY3932
2043	CHIP1355	STM/STY	1	1	STM0221	uppS	undecapreI	STY0244
2044	CHIP1371	STM/STY	1	1	STM2060	yeeA	putative inr	STY2265
2045	CHIP1387	STM/STY	1	1	STM0125	mraY	phospho-N	STY0145
2046	CHIP1499	STM/STY	1	1	STM2362	purF	amidophos	STY2592
2047	CHIP2061	STM/STY	1	1	STM3568	rpoH	sigma H (s	STY4243
2048	CHIP3225	STM/STY	1	1	STM3282	pnp	polynucleoI	STY3463
2049	CHIP1526	STM/STY	1	1	STM2554	hcaT	putative Mf	STY2801
2050	CHIP1003	STM specil	0	0	STM1018		Gifsy-2 prophage	
2051	CHIP1035	STM/STY	1	1	STM0226	lpxD	UDP-3-O-(	STY0249
2052	CHIP3138	STM specil	0	0	STM2594		Gifsy-1 prophage: simi	
2053	CHIP2032	STM/STY	1	1	STM3736		putative tra	STY4058
2054	CHIP2048	STM/STY	1	1	STM3627	dppD	ABC super	STY4171
2055	CHIP2064	STM/STY	1	1	STM3553	ugpQ	glyceropho	STY4258
2056	CHIP2080	STM/STY	1	1	STM3742	spoT	bifunctiona	STY4050
2057	CHIP1521	STM/STY	1	1	STM2345		putative tra	STY2575
2058	CHIP1545	STM/STY	1	1	STM2557	cadC	transcriptio	STY2804
2059	CHIP0992	STM/STY	1	1	STM2438	yfeK	putative pe	STY2676
2060	CHIP1016	STM/STY	1	1	STM0830	glnH	ABC super	STY0868
2061	CHIP1595	STM/STY	1	1	STM0583	ybdK	putative cyI	STY0626
2062	CHIP2003	STM/STY	1	1	STM4465		putative ori	STY4803
2063	CHIP3167	STM/STY	1	1	STM2643	srmB	ATP-deper	STY2836
2064	CHIP3183	STM/STY	1	1	STM3195	ribB	3,4 dihydro	STY3373
2065	CHIP0603	STM/STY	1	1	STM4248	tyrB	tyrosine an	STY4444
2066	CHIP0715	STM/STY	1	1	STM2549	asrB	anaerobic ;	STY2795
2067	CHIP0731	STM/STY	1	1	STM2071	hisG	ATP phosp	STY2280
2068	CHIP0763	STM/STY	1	1	STM0549	fimZ	fimbrial prc	STY0596
2069	CHIP1822	STM/STY	1	1	STM4026	yihX	paral putati	STY3852



2070	CHIP1854	STM/STY	1	1	STM0880	potI	ABC super	STY0913
2071	CHIP0662	STM/STY	1	1	STM0709	phrB	deoxyribod	STY0749
2072	CHIP1809	STM/STY	1	1	STM4067		putative AC	STY3803
2073	CHIP1841	STM/STY	1	1	STM0681	nagD	putative ph	STY0719
2074	CHIP1873	STM/STY	1	1	STM0728	nei	endonuclea	STY0771
2075	CHIP0679	STM/STY	1	1	STM4105	metF	5,10-methy	STY3761
2076	CHIP0615	STM/STY	1	1	STM4266	soxR	redox-sens	STY4464
2077	CHIP0449	STM/STY	0	0				
2078	CHIP0465	STM/STY	1	1	STM2556	hmpA	dihydropter	STY2803
2079	CHIP4673	STM/STY	1	1	STM0155		putative ou	STY0178
2080	CHIP0122	STM/STY	1	1	STM4164	thiC	5'-phospho	STY3721
2081	CHIP0138	STM/STY	1	1	STM4023	yihU	putative ox	STY3855
2082	CHIP4737	STM specil	1	0	STM4069		putative periplasmic pr	
2083	CHIP0388	STM/STY	1	1	STM2878	sptP	protein tyrc	STY3001
2084	CHIP0404	STM/STY	1	1	STM1192	plsX	putative fat	STY1231
2085	CHIP1255	STM/STY	1	1	STM1702	rnb	RNase II, n	STY1350
2086	CHIP1287	STM/STY	1	1	STM2662	rluD	pseudourid	STY2851
2087	CHIP1303	STM/STY	1	1	STM0049	lytB	regulates tl	STY0058
2088	CHIP4684	STM/STY	1	1	STM1024		Gifsy-2 pro	STY1038
2089	CHIP1313	STM/STY	1	1	STM3775		putative gly	STY4009
2090	CHIP4694	STM/STY	1	1	STM1410		putative cyI	STY1710
2091	CHIP0135	STM/STY	1	1	STM1729	yciF	putative cyI	STY1322
2092	CHIP4734	STM specil	0	0	STM2725		pseudogene; in-frame	
2093	CHIP4357	STM/STY	1	1	STM0420	pgpA	phosphatid	STY0459
2094	CHIP0399	STM/STY	1	1	STM1659	ogt	O-6-alkylgl	STY1405
2095	CHIP2866	STM/STY	1	1	STM1760		putative TF	STY1292
2096	CHIP1708	STM/STY	1	1	STM1825	yeaB	putative N1	STY1955
2097	CHIP1724	STM/STY	1	1	STM1767	narL	response r1	STY1285
2098	CHIP1740	STM/STY	1	1	STM2995	ptr	protease III	STY3133
2099	CHIP1756	STM/STY	1	1	STM2930	ispD	4-phospho	STY3055
2100	CHIP1772	STM/STY	1	1	STM2919	yglB	putative re	STY3044
2101	CHIP0377	STM/STY	1	1	STM1114	scsB	Suppressic	STY1150
2102	CHIP0759	STM/STY	1	1	STM0088	apaH	diadenosin	STY0103
2103	CHIP0052	STM/STY	1	1	STM3930	yifK	putative AF	STY3625
2104	CHIP0068	STM/STY	1	1	STM3913	gppA	guanosine	STY3641
2105	CHIP0092	STM/STY	1	1	STM4151	rplJ	50S riboso	STY3734
2106	CHIP1711	STM/STY	1	1	STM1815	minD	cell divisior	STY1945
2107	CHIP1705	STM/STY	1	1	STM1841		putative ou	STY1971
2108	CHIP0894	STM/STY	1	1	STM1920	cheW	purine-binc	STY2129
2109	CHIP0910	STM/STY	1	1	STM4190	pepE	(alpha)-as	STY4407
2110	CHIP0934	STM/STY	1	1	STM0432	phnX	2-aminoetr	STY0471
2111	CHIP1785	STM/STY	1	1	STM4043	yiiL	putative cyI	STY3831
2112	CHIP0023	STM/STY	0	0	STM3964	metR	regulator fc	STY3595
2113	CHIP4464	STM/STY	1	0	STM0610		putative co	STY0658
2114	CHIP2856	STM/STY	1	1	STM1733		putative fer	STY1318
2115	CHIP2776	STM/STY	1	1	STM1577	narZ	nitrate redt	STY1488
2116	CHIP2792	STM/STY	1	1	STM1609	tehA	TDT family	STY1455
2117	CHIP2808	STM/STY	1	0	STM1631	sseJ	Salmonella	STY1439a
2118	CHIP2832	STM/STY	1	1	STM1670		putative se	STY1394
2119	CHIP4387	STM/STY	1	1	STM0476	acrA	acridine eff	STY0520
2120	CHIP1143	STM/STY	1	1	STM1543		putative tra	STY1519
2121	CHIP1159	STM/STY	1	1	STM1527		putative inr	STY1534

2122	CHIP1183	STM/STY	1	1	STM0979	ycaL	putative Zn	STY0979
2123	CHIP4467	STM/STY	1	1	STM0615	ybdR	putative de	STY0663
2124	CHIP2859	STM/STY	1	1	STM1740	yciU	putative cy	STY1311
2125	CHIP2757	STM specil	1	0	STM1550		putative cytoplasmic pr	
2126	CHIP2773	STM specil	1	0	STM1571	yddG	putative permease	
2127	CHIP2789	STM/STY	1	1	STM1604	ydcP	putative co	STY1460
2128	CHIP2813	STM/STY	0	0				STY1433
2129	CHIP2933	STM specil	1	0	STM1896		putative cytoplasmic pr	
2130	CHIP1130	STM/STY	1	1	STM1878	exoX	DNA exon	STY2084
2131	CHIP4200	STM/STY	1	1	STM2973	fucO	L-1,2-prop	STY3112
2132	CHIP4224	STM/STY	1	1	STM3021		putative inr	STY3166
2133	CHIP4240	STM/STY	1	1	STM3062	serA	D-3-phosph	STY3218
2134	CHIP4256	STM/STY	1	1	STM3093	endA	DNA-speci	STY3246
2135	CHIP4368	STM/STY	1	1	STM0445	yajG	putative lip	STY0487
2136	CHIP2464	STM/STY	1	1	STM3581	yhhS	putative Mf	STY4230
2137	CHIP2482	STM/STY	1	1	STM3618	yhjN	putative ce	STY4182
2138	CHIP2506	STM/STY	1	1	STM3676	sgbU	putative 3-I	STY4120
2139	CHIP2522	STM/STY	1	1	STM3704	pmgI	phosphogly	STY4091
2140	CHIP4195	STM/STY	1	1	STM2961	ygcY	putative d-ζ	STY3099
2141	CHIP4211	STM/STY	1	1	STM2991	amiC	N-acetylmt	STY3129
2142	CHIP4235	STM/STY	1	1	STM3040	lysS	lysine tRN	STY3196
2143	CHIP2469	STM/STY	1	1	STM3588	yhiN	putative pe	STY4215
2144	CHIP4605	STM/STY	1	1	STM2981	ygdD	putative srr	STY3121
2145	CHIP4621	STM/STY	1	0	STM4312		putative phage protein	
2146	CHIP2533	STM specil	1	0	STM3745		putative cytoplasmic pr	
2147	CHIP4294	STM/STY	1	1	STM3177	ygiX	putative tra	STY3354
2148	CHIP4222	STM/STY	1	1	STM3016	araE	MFS family	STY3160
2149	CHIP1644	STM/STY	1	1	STM2214	spr	putative lip	STY2450
2150	CHIP1660	STM/STY	1	1	STM2096	rfdD	TDP-rham	STY2306
2151	CHIP1676	STM/STY	1	1	STM2158	yehT	putative re	STY2388
2152	CHIP1892	STM/STY	1	1	STM0940	ybjX	homologue	STY0936
2153	CHIP2100	STM/STY	1	1	STM3662	xylR	xylose ope	STY4136
2154	CHIP1932	STM/STY	1	1	STM4317		putative he	STY4517
2155	CHIP2086	STM/STY	1	1	STM3706	yigQ	putative pe	STY4089
2156	CHIP2110	STM/STY	1	1	STM3596	yhiR	putative cy	STY4206
2157	CHIP2126	STM/STY	1	1	STM3503	greB	transcriptio	STY4293
2158	CHIP2142	STM/STY	1	1	STM3295	folP	7,8-dihydr	STY3473
2159	CHIP1974	STM/STY	1	1	STM4569	deoB	phosphope	STY4920
2160	CHIP4483	STM specil	1	0	STM0351		putative cation efflux s	
2161	CHIP2144	STM/STY	1	1	STM3284	truB	tRNA pseu	STY3465
2162	CHIP2160	STM/STY	1	1	STM3185	yqiE	putative re	STY3363
2163	CHIP2176	STM/STY	1	1	STM3107	yggN	putative pe	STY3262
2164	CHIP1617	STM/STY	1	1	STM2817	luxS	quorum se	STY2943
2165	CHIP4517	STM/STY	1	1	STM2181	yohJ	putative eff	STY2411
2166	CHIP4533	STM/STY	1	1	STM2220	yejG	putative cy	STY2456
2167	CHIP4535	STM/STY	1	1	STM2222	rsuA	16S rRNA	STY2459
2168	CHIP1675	STM/STY	1	1	STM2154	mrp	putative AT	STY2383
2169	CHIP4575	STM/STY	1	1	STM2407	ypeC	putative pe	STY2648
2170	CHIP1907	STM/STY	1	1	STM3425	rplF	50S riboso	STY4373
2171	CHIP1923	STM/STY	1	1	STM3472	ppiA	peptidyl-pr	STY4324
2172	CHIP1939	STM/STY	1	1	STM4363	hflK	with HflC, f	STY4720
2173	CHIP0331	STM/STY	1	1	STM3762	cigR	putative inr	STY4024

2174	CHIP2238	STM/STY	1	1	STM3157	yghA	putative ox	STY3330
2175	CHIP2262	STM/STY	1	1	STM3060	ygfE	putative cyf	STY3216
2176	CHIP3362	STM/STY	1	1	STM0782	modB	ABC super	STY0815
2177	CHIP3394	STM/STY	1	1	STM0822	ybiB	putative tra	STY0858
2178	CHIP0292	STM/STY	1	1	STM2679	yfjD	putative mε	STY2866
2179	CHIP0382	STM/STY	1	1	STM2081	gnd	gluconate-t	STY2290
2180	CHIP3357	STM/STY	1	1	STM0773	galM	galactose-'	STY0806
2181	CHIP3389	STM/STY	1	1	STM0817	ybhF	putative AE	STY0852
2182	CHIP3421	STM/STY	1	1	STM0862	yliJ	putative glt	STY0895
2183	CHIP2202	STM/STY	1	1	STM3314	yrbG	putative Cε	STY3493
2184	CHIP2226	STM/STY	1	1	STM3222	ygjQ	putative int	STY3402
2185	CHIP4325	STM/STY	1	0	STM4313		putative cyf	STY4513
2186	CHIP1447	STM/STY	1	1	STM0366	yahO	putative pe	STY0398
2187	CHIP1440	STM/STY	1	1	STM2576	yfhL	putative fer	STY2822
2188	CHIP0462	STM specil	1	0	STM2635		Gifsy-1 prophage: simi	
2189	CHIP0650	STM/STY	1	1	STM4459	pyrI	aspartate c	STY4799
2190	CHIP1574	STM/STY	1	1	STM0586	fes	enterocheli	STY0629
2191	CHIP1803	STM/STY	1	1	STM4121	argC	N-acetyl-gε	STY3752
2192	CHIP1941	STM/STY	1	1	STM4365	yjeT	putative inr	STY4722
2193	CHIP0985	STM/STY	1	1	STM1388	orf70	putative cyf	STY1732
2194	CHIP1034	STM/STY	1	0	STM3384	yhdG	putative TII	STY3564
2195	CHIP3540	STM specil	1	0	STM4198		putative cytoplasmic pr	
2196	CHIP3572	STM/STY	1	1	STM4250	yjbQ	putative cyf	STY4446
2197	CHIP1205	STM/STY	1	1	STM2736		Fels-2 proφ	STY4642
2198	CHIP4085	STM/STY	1	1	STM2787		tricarboxyli	STY2907
2199	CHIP4094	STM/STY	1	1	STM3995	yihD	putative cyf	STY3885
2200	CHIP4160	STM/STY	1	1	STM2904		putative AE	STY3026
2201	CHIP4138	STM specil	1	0	STM4116	frwD	PTS system fructose-li	
2202	CHIP4180	STM/STY	1	1	STM2932	ygbE	putative inr	STY3057
2203	CHIP3965	STM/STY	1	1	STM1461	ydgT	putative cyf	STY1661
2204	CHIP3990	STM/STY	1	1	STM1503	ynfB	putative pe	STY1560
2205	CHIP0184	STM/STY	1	1	STM2045	pduJ	Propanedic	STY2250
2206	CHIP0234	STM/STY	1	1	STM4394	rplI	50S riboso	STY4750
2207	CHIP0220	STM/STY	1	1	STM3444	bfd	regulatory r	STY4354
2208	CHIP1335	STM/STY	1	1	STM0307		homology t	STY0352
2209	CHIP2889	STM/STY	1	1	STM1813	ycgL	putative cyf	STY1943
2210	CHIP2874	STM/STY	1	0	STM1782	yehH	putative inr	STY1908
2211	CHIP2914	STM/STY	1	1	STM1857		putative ac	STY1991
2212	CHIP2924	STM/STY	1	1	STM1881	yebF	putative pe	STY2087
2213	CHIP2902	STM/STY	1	1	STM1839		putative pe	STY1969
2214	CHIP4719	STM/STY	1	1	STM2209		putative inr	STY2445
2215	CHIP1080	STM specil	0	0				
2216	CHIP1057	STM specil	0	0				
2217	CHIP1089	STM specil	1	0	PSLT079	traE	conjugative transfer: as	
2218	CHIP0651	STM specil	1	0	PSLT038	spvC	Salmonella plasmid vir	
2219	CHIP1074	STM specil	0	0				
2220	CHIP1114	STM specil	0	0	PSLT106		homologue of mvpA, S	
2221	CHIP0951	none	0	0	R460025	traK		
2222	CHIP4875	none	0	0	R460010	traM		
2223	CHIP4902	none	0	0	R460055	tetA		
2224	CHIP4890	none	0	0	R460035	orf80		
2225	CHIP4884	none	0	0	R460020	traG		

2226	CHIP4871	none	0	0	R460005	kikA	
2227	CHIP4803	STM specif	0	0			
2228	CHIP4807	STM specif	1	0	STM2590		Gifsy-1 prophage: simi
2229	CHIP4811	STM/STY	0	0			
2230	CHIP4815	STM specif	0	0			
2231	CHIP4819	STM specif	0	0	STM1010		Gifsy-2 prophage
2232	CHIP4823	STM/STY	0	0			
2233	CHIP5197	STY specif	0	1			STY3188
2234	CHIP5127	STY specif	0	1			STY2068
2235	CHIP5143	STY specif	0	1			STY2298
2236	CHIP5247	STY specif	0	1			STY3685
2237	CHIP5262	STY specif	0	1			STY3764
2238	CHIP5005	STM/STY	0	1			STY1293
2239	CHIP5219	STM/STY	0	0			
2240	CHIP5234	STY specif	0	1			STY3671
2241	CHIP5249	STY specif	0	1			STY3687
2242	CHIP5264	STY specif	0	1			STY3845
2243	CHIP5007	STY specif	0	1			STY1360
2244	CHIP5023	STY specif	0	1			STY1598
2245	CHIP5229	STY specif	0	1			STY3665
2246	CHIP5243	STY specif	0	1			STY3681
2247	CHIP5258	STY specif	0	0			STY3703
2248	CHIP4914	STY specif	0	1			STY0202
2249	CHIP4930	STY specif	0	1			STY0322
2250	CHIP4946	STM/STY	0	1			STY0478
2251	CHIP5245	STY specif	0	1			STY3683
2252	CHIP5179	STM/STY	0	1			STY2895
2253	CHIP4916	STY specif	0	1			STY0204
2254	CHIP4932	STY specif	0	1			STY0324
2255	CHIP4948	STY specif	0	1			STY0480
2256	CHIP4964	STY specif	0	1			STY1029
2257	CHIP5284	STY specif	0	1			STY4219
2258	CHIP5385	STY specif	0	1			STY4653
2259	CHIP5403	STY specif	0	1			STY4679
2260	CHIP5419	STY specif	0	1			STY4831
2261	CHIP5434	STM/STY	0	1			STY4875
2262	CHIP5285	STY specif	0	1			STY4220
2263	CHIP5356	STY specif	0	1			STY4596
2264	CHIP5288	STM/STY	0	1			STY4259
2265	CHIP5304	STY specif	0	1			STY4529
2266	CHIP5400	STY specif	0	1			STY4675
2267	CHIP5416	STY specif	0	1			STY4828
2268	CHIP5431	STY specif	0	1			STY4853
2269	CHIP2704	STM/STY	1	1	STM0190	mrcB	transpeptid STY0215
2270	CHIP3304	STM/STY	1	1	STM0680	asnB	asparagine STY0718
2271	CHIP3320	STM/STY	1	1	STM0702	kdpE	response r <sub>1</sub> STY0743
2272	CHIP2577	STM/STY	1	1	STM3832		putative pe STY3946
2273	CHIP0810	STM/STY	1	1	STM2028	cbiG	synthesis c STY2233
2274	CHIP0826	STM/STY	1	1	STM3789	uhpB	sensory hiε STY3993
2275	CHIP2587	STM specif	1	0	STM3845		putative inner membra
2276	CHIP2603	STM/STY	1	1	STM3877	asnA	asparagine STY3901
2277	CHIP2627	STM/STY	1	1	STM0041		putative gly STY0049

2278	CHIP2659	STM/STY	1	1	STM0116	ilvI	acetolactat	STY0135
2279	CHIP2675	STM/STY	1	1	STM0149		putative pe	STY0171
2280	CHIP2691	STM specil	1	0	STM0175	stiC	putativie fimbrial	usher
2281	CHIP3245	STM/STY	1	1	STM3328	arcB	sensory his	STY3507
2282	CHIP3261	STM/STY	1	1	STM3368	tldD	suppresse	STY3548
2283	CHIP3277	STM/STY	1	1	STM0629	cspE	RNA chap	STY0678
2284	CHIP3293	STM specil	1	0	STM0654	ybeQ	putative TPR repeat	pr
2285	CHIP3309	STM/STY	1	1	STM0686	glnS	glutamine t	STY0724
2286	CHIP3325	STM/STY	1	1	STM0712	ybgJ	putative ca	STY0752
2287	CHIP2727	STM/STY	1	1	STM0242	proS	proline tRN	STY0269
2288	CHIP2751	STM/STY	1	1	STM1541		putative re	STY1521
2289	CHIP4008	STM/STY	1	1	STM2113	wcaC	putative gly	STY2326
2290	CHIP3736	STM/STY	1	1	STM4591	sthE	putative m	STY4938
2291	CHIP3752	STM specil	1	0	STM0278		putative periplasmic	pr
2292	CHIP3776	STM/STY	1	1	STM0321	proB	gamma-glu	STY0366
2293	CHIP4026	STM specil	1	0	STM2707		Fels-2 prophage: simil	
2294	CHIP3754	STM/STY	1	0	STM0283		putative inner membra	
2295	CHIP4066	STM specil	1	0	STM2759		putative dipeptide/olig	
2296	CHIP4082	STM/STY	1	1	STM2781	virK	virulence g	STY2899
2297	CHIP3810	STM/STY	1	1	STM1087	pipA	Pathogenic	STY1115
2298	CHIP3826	STM/STY	1	1	STM1111	yccD	putative cy	STY1147
2299	CHIP4076	STM specil	0	0	STM2769		putative transposase	
2300	CHIP4092	STM/STY	1	1	STM2798	ygaP	putative rh	STY2918
2301	CHIP3820	STM/STY	1	1	STM1102	hpaE	4-hydroxyp	STY1136
2302	CHIP2396	STM/STY	1	1	STM3453	fkpA	FKBP-type	STY4345
2303	CHIP2412	STM/STY	1	1	STM3489	yrfA	putative inr	STY4307
2304	CHIP3876	STM/STY	1	1	STM1236		putative pe	STY1276
2305	CHIP3822	STM/STY	1	1	STM1319	cedA	cell divisior	STY1792
2306	CHIP3838	STM/STY	1	1	STM1147		putative AC	STY1184
2307	CHIP3854	STM/STY	1	1	STM1197	fabF	3-oxoacyl-]	STY1236
2308	CHIP3870	STM/STY	1	1	STM1217	ycfU	ABC trans	STY1257
2309	CHIP3886	STM/STY	1	1	STM1267		putative cy	STY1854
2310	CHIP2462	STM/STY	1	1	STM3578	yhhP	small ubiq	STY4233
2311	CHIP3521	STM specil	1	0	STM1030		Gifsy-2 prophage	
2312	CHIP3537	STM specil	1	0	STM4195		putative Na+-depende	
2313	CHIP3561	STM/STY	1	1	STM4221	pgi	glucoseph	STY4417
2314	CHIP3577	STM/STY	1	1	STM4264	yjcC	putative di	STY4462
2315	CHIP3593	STM/STY	1	1	STM4297	melR	regulator o	STY4496
2316	CHIP3041	STM/STY	1	1	STM2376		putative pe	STY2607
2317	CHIP3571	STM/STY	1	1	STM4249	aphA	non-specifi	STY4445
2318	CHIP3587	STM/STY	1	1	STM4284	yjcO	putative TF	STY4483
2319	CHIP3603	STM/STY	1	1	STM4326	aspA	aspartate	STY4685
2320	CHIP3435	STM/STY	1	1	STM0890	artI	ABC super	STY0923
2321	CHIP3459	STM specil	1	0	STM0916		Fels-1 prophage; putat	
2322	CHIP3475	STM/STY	1	1	STM0937	hcp	hybrid clus	STY0933
2323	CHIP4110	STM/STY	1	1	STM4066		putative su	STY3804
2324	CHIP3558	STM specil	1	0	STM4217		putative soluble lytic m	
2325	CHIP4158	STM specil	1	0	STM2902		putative cytoplasmic	pr
2326	CHIP3606	STM/STY	1	1	STM4332	yjeJ	putative inr	STY4692
2327	CHIP3430	STM/STY	1	1	STM0878	potG	ABC super	STY0911
2328	CHIP3454	STM specil	0	0				
2329	CHIP0233	STM/STY	1	1	STM0202	hemL	glutamate-	STY0223

2330	CHIP0249	STM/STY	1	1	STM0369	prpC	putative cit	STY0401
2331	CHIP2356	STM/STY	1	1	STM1347	aroH	3-deoxy-D-	STY1763
2332	CHIP2945	STM/STY	1	1	STM1935	ftn	cytoplasmic	STY2143
2333	CHIP2961	STM/STY	1	1	STM1993	yedJ	putative hy	STY2201
2334	CHIP2985	STM/STY	1	1	STM2271	rcsC	sensory his	STY2496
2335	CHIP3659	STM specil	1	0	STM4433		putative thiamine pyro	
2336	CHIP3003	STM/STY	1	1	STM2310	menF	isochorism	STY2541
2337	CHIP3019	STM/STY	1	1	STM2336		putative cyf	STY2566
2338	CHIP0196	STM/STY	1	1	STM2057	pduW	Propanedic	STY2262
2339	CHIP0212	STM/STY	1	1	STM2924	rpoS	sigma S (si	STY3049
2340	CHIP0236	STM/STY	1	1	STM0206	btuF	putative co	STY0228
2341	CHIP0206	STM specil	1	0	STM2636		Gifsy-1 prophage: simi	
2342	CHIP2305	STM/STY	1	1	STM1340	btuC	ABC super	STY1770
2343	CHIP2321	STM/STY	1	1	STM1076	mgsA	methylglyo:	STY1098
2344	CHIP0262	STM/STY	1	1	STM2867	hilC	bacterial re	STY2988
2345	CHIP0278	STM/STY	1	1	STM4094	cytR	transcriptio	STY3776
2346	CHIP2950	STM/STY	1	1	STM1945	pgsA	phosphatid	STY2153
2347	CHIP0264	STM/STY	1	1	STM2898	invG	invasion pr	STY3021
2348	CHIP2363	STM/STY	1	1	STM1431	sodB	superoxide	STY1691
2349	CHIP0481	STM/STY	1	1	STM1144	csgA	curlin majo	STY1181
2350	CHIP0497	STM/STY	1	1	STM3726	mutM	formamido	STY4068
2351	CHIP0529	STM/STY	1	1	STM3716	rfaY	lipopolysac	STY4079
2352	CHIP3976	STM/STY	1	1	STM1478	ydgH	putative pe	STY1590
2353	CHIP3970	STM/STY	1	1	STM1468	fumA	fumarase /	STY1654
2354	CHIP3986	STM/STY	1	1	STM1498		putative dir	STY1566
2355	CHIP1318	STM/STY	1	1	STM3781		putative su	STY4001
2356	CHIP1334	STM/STY	1	1	STM0308	yafV	putative an	STY0353
2357	CHIP1446	STM/STY	1	1	STM0363		putative tra	STY0395
2358	CHIP1374	STM/STY	1	1	STM2013	yeeO	putative M/	STY2216
2359	CHIP1376	STM/STY	1	1	STM2067	sbcB	exonucleaε	STY2276
2360	CHIP1392	STM/STY	1	1	STM0133	ftsZ	tubulin-like	STY0153
2361	CHIP1504	STM/STY	1	1	STM2323	nuoG	NADH deh	STY2553
2362	CHIP0494	STM/STY	1	1	STM0317	gpt	guanine-hy	STY0362
2363	CHIP0510	STM/STY	1	1	STM1980	fliQ	flagellar bic	STY2188
2364	CHIP3981	STM/STY	1	1	STM1487	ynfL	putative tra	STY1578
2365	CHIP0568	STM/STY	1	1	STM3447	rpsG	30S riboso	STY4351
2366	CHIP1427	STM/STY	1	1	STM3847	yidY	putative Mf	STY3936
2367	CHIP1451	STM/STY	1	1	STM0387	yail	putative cyf	STY0420
2368	CHIP1467	STM/STY	1	1	STM0441	cyoC	cytochromε	STY0483
2369	CHIP1483	STM/STY	1	1	STM4269	yjcE	putative CF	STY4467
2370	CHIP1507	STM/STY	1	1	STM2312	elaA	putative ac	STY2543
2371	CHIP3209	STM/STY	1	1	STM3258		Sugar spec	STY3441
2372	CHIP0963	STM/STY	1	0	STM4156		putative cytoplasmic pr	
2373	CHIP0987	STM/STY	1	1	STM1381	orf245	putative cyf	STY1741
2374	CHIP1550	STM/STY	1	1	STM2512	xseA	exonucleaε	STY2753
2375	CHIP1582	STM/STY	1	1	STM0500	ybbJ	putative Mε	STY0546
2376	CHIP1998	STM/STY	1	1	STM4413		putative im	STY4772
2377	CHIP3180	STM/STY	1	1	STM3190	ygiE	putative div	STY3368
2378	CHIP3196	STM/STY	1	1	STM3220	ygiO	paral putati	STY3400
2379	CHIP3212	STM/STY	1	1	STM3265	yraN	putative en	STY3448
2380	CHIP3228	STM specil	1	0	STM3291		putative cytoplasmic pr	
2381	CHIP0982	STM/STY	1	1	STM1773	yhcA	putative tra	STY1898

2382	CHIP1006	STM/STY	1	1	STM2300	putative cyI	STY2530	
2383	CHIP1539	STM/STY	1	1	STM2447	putative ou	STY2684	
2384	CHIP1024	STM/STY	1	1	STM4471	miaE hydroxylas	STY4809	
2385	CHIP1603	STM/STY	1	1	STM2794	ygaE	putative tra	STY2914
2386	CHIP2011	STM/STY	1	1	STM4512	iadA	isoaspartyl	STY4868
2387	CHIP2027	STM/STY	1	1	STM4595		putative firr	STY4944
2388	CHIP2043	STM/STY	1	0	STM3656	glyQ	glycine tRNA synthetas	
2389	CHIP0611	STM/STY	1	1	STM1753	hnr	Response	STY1297
2390	CHIP0627	STM/STY	1	1	STM1693	sapB	ABC super	STY1368
2391	CHIP0643	STM/STY	1	1	STM4048	rhaS	positive reç	STY3825
2392	CHIP1798	STM/STY	1	1	STM3998	yihG	putative en	STY3882
2393	CHIP1830	STM/STY	1	1	STM0813	ybhP	putative cyI	STY0848
2394	CHIP1862	STM/STY	1	1	STM0797	bioD	dethiobiotin	STY0830
2395	CHIP0758	STM/STY	1	1	STM0089	apaG	putative cyI	STY0104
2396	CHIP1817	STM/STY	1	1	STM4040	yiiG	putative cyI	STY3836
2397	CHIP1849	STM/STY	1	1	STM0641	ybeA	putative cyI	STY0692
2398	CHIP1881	STM/STY	1	1	STM0261	gloB	hydroxyacy	STY0282
2399	CHIP0591	STM/STY	1	1	STM0978	aroA	3-enolpyru	STY0978
2400	CHIP0711	STM/STY	1	1	STM2355	argT	ABC super	STY2585
2401	CHIP1284	STM/STY	1	1	STM2685	smpA	small mem	STY2871
2402	CHIP1300	STM/STY	1	1	STM0059	citD2	putative cit	STY0068
2403	CHIP4681	STM/STY	1	1	STM0362		putative cyI	STY0394
2404	CHIP4705	STM/STY	1	1	STM1854		putative inr	STY1986
2405	CHIP0146	STM/STY	1	1	STM3594	prlC	oligopeptid	STY4209
2406	CHIP3323	STM/STY	0	0				
2407	CHIP1223	STM/STY	1	1	STM4303	dcuR	response r	STY4501
2408	CHIP1239	STM/STY	0	0				STY2144
2409	CHIP1263	STM/STY	1	1	STM1684	ycjF	putative inr	STY1377
2410	CHIP0460	STM/STY	1	1	STM2637	rseC	regulator o	STY2830
2411	CHIP0476	STM/STY	1	1	STM1139	csgG	putative tra	STY1176
2412	CHIP0109	STM/STY	1	1	STM2958	barA	sensory his	STY3096
2413	CHIP4678	STM/STY	0	0	STM0324		putative inner membra	
2414	CHIP0119	STM specil	1	0	STM4161		putative involved in thic	
2415	CHIP4718	STM/STY	1	1	STM3460		pseudogen	STY4338
2416	CHIP3231	STM/STY	1	1	STM3297	ftsJ	23S rRNA	STY3475
2417	CHIP0191	STM/STY	1	1	STM2052	pduQ	Propanedic	STY2257
2418	CHIP1234	STM/STY	1	1	STM4279	nrfC	putative nit	STY4477
2419	CHIP0865	STM/STY	1	1	STM1975	fliL	flagellar bic	STY2183
2420	CHIP0881	STM/STY	1	1	STM1512	dcp	dipeptidyl c	STY1549
2421	CHIP0897	STM/STY	1	1	STM4130	btuB	outer mem	STY3744
2422	CHIP0913	STM/STY	1	1	STM0609	ahpF	alkyl hydroj	STY0655
2423	CHIP0929	STM/STY	1	1	STM1744	oppC	ABC super	STY1306
2424	CHIP1780	STM/STY	1	1	STM4072	ydeV	putative su	STY3798
2425	CHIP0020	STM/STY	1	1	STM3967	dlhH	putative diç	STY3592
2426	CHIP0036	STM/STY	1	1	STM3951	uvrD	DNA-deper	STY3608
2427	CHIP1382	STM/STY	1	1	STM0085	yabF	putative N/	STY0100
2428	CHIP2182	STM/STY	1	1	STM3059	ygfB	putative cyI	STY3215
2429	CHIP0868	STM/STY	1	1	STM1971	fliH	flagellar bic	STY2179
2430	CHIP0884	STM/STY	1	1	STM2430	cysK	subunit of ç	STY2666
2431	CHIP0878	STM/STY	1	1	STM2432	ptsl	General P1	STY2668
2432	CHIP1729	STM/STY	1	1	STM1717	yciK	putative ox	STY1333
2433	CHIP1753	STM/STY	1	1	STM2951	ygcF	putative Or	STY3080

2434	CHIP1769	STM/STY	1	1	STM2949	ptpS	putative sy	STY3077
2435	CHIP1793	STM/STY	1	1	STM4013		putative m	STY3866
2436	CHIP0550	STM/STY	1	1	STM1912	flhE	flagellar pr	STY2121
2437	CHIP1204	STM/STY	1	1	STM1656		putative Zn	STY1409
2438	CHIP2760	STM/STY	1	0	STM1554		putative co	STY1509
2439	CHIP2880	STM/STY	1	0	STM1795		putative ho	STY1922
2440	CHIP2896	STM/STY	1	1	STM1830	manX	Sugar Spe	STY1959
2441	CHIP2912	STM/STY	1	1	STM1853	prpA	serine/thre	STY1984
2442	CHIP2936	STM/STY	1	1	STM1900	ntpA	dATP pyro	STY2108
2443	CHIP1127	STM/STY	1	1	STM0888	artM	ABC super	STY0921
2444	CHIP4411	STM/STY	1	1	STM0520		putative pe	STY0568
2445	CHIP1167	STM/STY	1	1	STM0998	aspC	aspartate	STY1000
2446	CHIP4451	STM/STY	1	1	STM0589	fepE	ferric enter	STY0632
2447	CHIP4475	STM/STY	1	1	STM0338	stbC	putative fir	STY0371
2448	CHIP2763	STM/STY	1	1	STM1557		putative an	STY1507
2449	CHIP2861	STM/STY	1	1	STM1746	oppA	ABC super	STY1304
2450	CHIP2877	STM/STY	1	1	STM1786		hydrogena	STY1913
2451	CHIP2893	STM/STY	1	1	STM1827		putative di	STY1957
2452	CHIP2821	STM/STY	1	1	STM1651	nifJ	putative py	STY1419
2453	CHIP2837	STM/STY	1	1	STM1678		putative 2'	STY1385
2454	CHIP4398	STM/STY	1	1	STM0497		putative pe	STY0543
2455	CHIP4208	STM/STY	1	1	STM2984	csdA	putative se	STY3124
2456	CHIP4320	STM specil	0	0				
2457	CHIP4336	STM/STY	1	1	STM0270		putative cy	STY0291
2458	CHIP4352	STM/STY	1	1	STM0408	secF	preprotein	STY0446
2459	CHIP4280	STM/STY	1	1	STM3148	hybB	putative cy	STY3319
2460	CHIP4584	STM/STY	1	1	STM2830	ygaD	putative cy	STY2951
2461	CHIP2490	STM/STY	1	1	STM3633		putative ba	STY4164
2462	CHIP4626	STM specil	1	0	STM4540		putative glucosamine-f	
2463	CHIP2530	STM/STY	1	1	STM3737		putative Zn	STY4057
2464	CHIP4291	STM specil	1	0	STM3170		putative inner membra	
2465	CHIP4219	STM/STY	1	1	STM3009	ygeD	putative eff	STY3152
2466	CHIP4243	STM/STY	1	1	STM3076	tktA	transketola	STY3236
2467	CHIP4589	STM/STY	1	1	STM2845	hycl	protease in	STY2967
2468	CHIP2493	STM/STY	1	1	STM3647	yiaF	putative ou	STY4155
2469	CHIP2509	STM/STY	1	1	STM3680	aldB	aldehyde d	STY4116
2470	CHIP2541	STM/STY	1	1	STM3768		putative se	STY4017
2471	CHIP4206	STM/STY	1	1	STM2979	fucR	positive re	STY3119
2472	CHIP4230	STM/STY	1	0	STM3029	stdA	putative fir	STY3177
2473	CHIP4528	STM/STY	1	1	STM2200	lysP	APC family	STY2435
2474	CHIP4544	STM specil	1	0	STM2235		putative phage protein	
2475	CHIP1684	STM/STY	1	1	STM2208		putative inr	STY2444
2476	CHIP2084	STM/STY	1	1	STM3731	dut	deoxyuridir	STY4063
2477	CHIP1916	STM/STY	1	1	STM3435	rplV	50S riboso	STY4363
2478	CHIP1940	STM/STY	1	1	STM4364	hflC	with HflK, r	STY4721
2479	CHIP1902	STM/STY	1	1	STM3414	rplQ	50S riboso	STY4384
2480	CHIP1926	STM/STY	1	1	STM0941	ybjY	paral putati	STY0937
2481	CHIP1942	STM/STY	1	1	STM4366	purA	adenylosuc	STY4723
2482	CHIP2150	STM/STY	1	1	STM3247	garK	glycerate k	STY3429
2483	CHIP2166	STM/STY	1	1	STM3149	hybA	function un	STY3320
2484	CHIP1607	STM/STY	1	1	STM2833	srlE	PTS family	STY2954
2485	CHIP1960	STM/STY	1	1	STM4446		putative se	STY4785



2486	CHIP1976	STM/STY	1	1	STM4579	radA	putative AT	STY4926
2487	CHIP4485	STM specil	1	0	STM0353		putative cation transpo	
2488	CHIP1625	STM/STY	1	1	STM2844		putative pe	STY2966
2489	CHIP1641	STM/STY	1	1	STM2207	setB	proton efflu	STY2443
2490	CHIP1657	STM/STY	1	1	STM2090	rfbH	LPS side c	STY2300
2491	CHIP1659	STM/STY	1	1	STM2092	rfbF	LPS side c	STY2302
2492	CHIP4559	STM/STY	1	1	STM2152	stcA	paral putati	STY2381
2493	CHIP1699	STM/STY	1	1	STM1765	narK	MFS super	STY1287
2494	CHIP2099	STM/STY	1	1	STM3668	yiaK	putative m	STY4130
2495	CHIP2115	STM/STY	1	1	STM3575	yhhN	putative inr	STY4236
2496	CHIP2131	STM/STY	1	1	STM3336	nanK	putative M	STY3516
2497	CHIP2222	STM/STY	1	1	STM3226	yqjA	putative D	STY3406
2498	CHIP0363	STM/STY	1	1	STM1402	sseE	Secretion	STY1718
2499	CHIP0379	STM/STY	1	1	STM1116	scsD	Suppressic	STY1152
2500	CHIP3370	STM/STY	1	1	STM0791	hutH	histidine ar	STY0824
2501	CHIP3402	STM/STY	1	1	STM0837	ybiS	putative pe	STY0878
2502	CHIP2183	STM/STY	1	1	STM3057	ubiH	2-octapren	STY3213
2503	CHIP2273	STM/STY	1	1	STM1103	hpaD	4-hydroxyp	STY1137
2504	CHIP3365	STM/STY	1	1	STM0787	hutI	Imidazolon	STY0820
2505	CHIP3397	STM/STY	1	1	STM0827	ybiO	paral putati	STY0865
2506	CHIP0303	STM/STY	1	1	STM1601	ugtL	putative m	STY1463
2507	CHIP2210	STM/STY	1	1	STM3256		putative ph	STY3438
2508	CHIP2234	STM/STY	1	1	STM3187	ygiB	putative inr	STY3365
2509	CHIP0237	STM/STY	1	1	STM2470	eutS	putative ca	STY2706
2510	CHIP0314	STM/STY	1	1	STM2304	pmrD	polymyxin	STY2534
2511	CHIP1417	STM/STY	1	1	STM3862	glmU	N-acetyl gl	STY3916
2512	CHIP1466	STM/STY	1	1	STM0424	xseB	exonuclea	STY0463
2513	CHIP0582	STM/STY	1	1	STM2805	nrdH	glutaredoxi	STY2930
2514	CHIP4373	STM/STY	1	1	STM0454	ybaW	putative es	STY0496
2515	CHIP0917	STM specil	0	0	STM3353	oadG-1	putative sodium ion pu	
2516	CHIP1910	STM/STY	1	1	STM3429	rplX	50S riboso	STY4369
2517	CHIP1912	STM/STY	1	1	STM3431	rpsQ	30S riboso	STY4367
2518	CHIP1953	STM/STY	1	1	STM4402	ytfH	putative tra	STY4760
2519	CHIP4560	STM/STY	1	1	STM2153	yehE	putative ou	STY2382
2520	CHIP4507	STM/STY	1	1	STM1930		pseudogen	STY2139
2521	CHIP2267	STM/STY	1	1	STM1065	ymbA	putative ou	STY1086
2522	CHIP4652	STM/STY	1	1	STM2653	yfiM	putative ou	STY2846
2523	CHIP4637	STM/STY	1	1	STM1443	ydhI	putative inr	STY1679
2524	CHIP4653	STM/STY	1	0	STM2664		pseudogene; two in-fra	
2525	CHIP4598	STM/STY	1	1	STM4096	rpmE	50S riboso	STY3774
2526	CHIP4662	STM/STY	1	1	STM4302		putative cy	STY4500a
2527	CHIP0099	STM/STY	1	1	STM0449	clpX	specificity	STY0491
2528	CHIP0134	STM/STY	1	1	STM1728	yciG	putative cy	STY1323
2529	CHIP3887	STM/STY	1	1	STM1272	yoaG	putative cy	STY1849
2530	CHIP4321	STM/STY	1	0	STM2704		Fels-2 prophage: simil	
2531	CHIP1366	STM/STY	1	1	STM0237	rof	modulator	STY0262
2532	CHIP2616	STM/STY	1	1	STM0017		putative pr	STY0017
2533	CHIP2563	STM/STY	0	0				STY2477
2534	CHIP4680	STM/STY	1	1	STM0359		putative cy	STY0391
2535	CHIP4696	STM/STY	1	1	STM1093		putative cy	STY1125
2536	CHIP4715	STM/STY	1	1	STM3566		putative cy	STY4246
2537	CHIP2910	STM/STY	1	1	STM1851		putative cy	STY1982

2538	CHIP2895	STM/STY	1	0	STM1829		putative cytoplasmic pr
2539	CHIP1096	STM specif	1	0	PSLT087		conjugative transfer:
2540	CHIP1065	STM specif	1	0	PSLT036		putative transposase, I
2541	CHIP1097	STM specif	1	0	PSLT088	traC	conjugative transfer: as
2542	CHIP0659	STM specif	1	0	PSLT039	spvB	Salmonella plasmid vir
2543	CHIP1090	STM specif	1	0	PSLT081	traB	conjugative transfer: as
2544	CHIP0604	STM specif	1	0	PSLT018	pefA	plasmid-encoded fimbr
2545	CHIP0953	none	0	0	R460024	traJ	
2546	CHIP4882	none	0	0	R460018	traO	
2547	CHIP4908	none	0	0	R460063	rec	
2548	CHIP4903	none	0	0	R460056		
2549	CHIP4891	none	0	0	R460036	ardR	
2550	CHIP4878	none	0	0	R460013	traC	
2551	CHIP4804	STM specif	0	0			
2552	CHIP4808	STM/STY	1	1	STM0710	ybgH	putative PC STY0750
2553	CHIP4812	STM/STY	0	0			
2554	CHIP4816	STM/STY	1	1	STM0848	yliA	putative AT STY0887
2555	CHIP4820	STM specif	0	0			
2556	CHIP4824	STM/STY	0	0			
2557	CHIP5111	STY specif	0	1			STY2052
2558	CHIP5217	STM/STY	0	1			STY3614
2559	CHIP5151	STY specif	0	1			STY2355
2560	CHIP5167	STM/STY	0	1			STY2756
2561	CHIP5181	STM/STY	0	1			STY3006
2562	CHIP4918	STY specif	0	1			STY0206
2563	CHIP5137	STY specif	0	1			STY2104
2564	CHIP5153	STY specif	0	1			STY2357
2565	CHIP5168	STM/STY	0	0			
2566	CHIP5183	STY specif	0	1			STY3065
2567	CHIP4920	STY specif	0	1			STY0295
2568	CHIP4936	STY specif	0	1			STY0332
2569	CHIP5147	STY specif	0	1			STY2350
2570	CHIP5163	STY specif	0	1			STY2731
2571	CHIP5177	STY specif	0	0			STY2888
2572	CHIP5009	STY specif	0	1			STY1364
2573	CHIP5025	STY specif	0	1			STY1600
2574	CHIP5041	STY specif	0	1			STY1617
2575	CHIP5165	STY specif	0	1			STY2749
2576	CHIP5268	STM/STY	0	1			STY3924
2577	CHIP5011	STY specif	0	1			STY1413
2578	CHIP5027	STY specif	0	1			STY1602
2579	CHIP5043	STY specif	0	1			STY1619
2580	CHIP5058	STY specif	0	1			STY1636
2581	CHIP5373	STY specif	0	1			STY4630
2582	CHIP5307	STY specif	0	1			STY4535
2583	CHIP5328	STY specif	0	1			STY4566
2584	CHIP5344	STY specif	0	1			STY4584
2585	CHIP5360	STM/STY	0	1			STY4601
2586	CHIP5292	STY specif	0	1			STY4413
2587	CHIP5363	STM/STY	0	1			STY4610
2588	CHIP5377	STY specif	0	1			STY4637
2589	CHIP5312	STY specif	0	1			STY4544

2590	CHIP5325	STY specif	0	1		STY4563
2591	CHIP5341	STY specif	0	1		STY4580
2592	CHIP5357	STY specif	0	1		STY4597
2593	CHIP0834	STM/STY	1	1	STM1071	sulA suppressor STY1092
2594	CHIP0858	STM/STY	1	1	STM4227	malG ABC super STY4423
2595	CHIP2673	STM/STY	1	1	STM0142	hofC putative co STY0164
2596	CHIP2689	STM/STY	1	1	STM0173	yadH putative AE STY0195
2597	CHIP2705	STM/STY	1	1	STM0192	fhuC ABC super STY0219
2598	CHIP2729	STM/STY	1	1	STM0246	yaeE putative AE STY0273
2599	CHIP3267	STM/STY	1	1	STM3375	yhdA putative diç STY3555
2600	CHIP3291	STM/STY	1	1	STM0652	putative siç STY0703
2601	CHIP3307	STM/STY	1	1	STM0684	nagB glucosamir STY0722
2602	CHIP0773	STM specif	1	0	STM3639	lpfB long polar fimbrial chaç
2603	CHIP2580	STM/STY	1	1	STM3839	rpmH 50S riboso STY3939A
2604	CHIP2596	STM/STY	1	1	STM3858	putative ph STY3925
2605	CHIP0775	STM specif	1	0	STM3637	lpfD long polar fimbrial oper
2606	CHIP2590	STM/STY	1	1	STM3850	yieF putative ox STY3933
2607	CHIP2606	STM/STY	1	1	STM3884	rbsB ABC super STY3894
2608	CHIP0839	STM/STY	1	1	STM3713	rfaL O-antigen I STY4082
2609	CHIP0855	STM/STY	1	1	STM0225	hlpA histone-like STY0248
2610	CHIP2662	STM/STY	1	1	STM0121	ftsL cell divisior STY0141
2611	CHIP4072	STM specif	1	0	STM2765	putative transposase
2612	CHIP4088	STM/STY	1	1	STM2790	ygaF paral putati STY2910
2613	CHIP2376	STM/STY	1	1	STM1484	putative prç STY1583
2614	CHIP2392	STM/STY	1	1	STM3439	rpID 50S riboso STY4359
2615	CHIP2408	STM/STY	1	1	STM3480	yhfL putative ou STY4316
2616	CHIP2424	STM/STY	1	1	STM3508	putative cyI STY4288
2617	CHIP2386	STM/STY	1	0	STM3411	putative cytoplasmic pr
2618	CHIP2402	STM/STY	1	0	STM3462	yheT putative hy STY4335
2619	CHIP2418	STM/STY	1	1	STM3498	yrfI heat shock STY4298
2620	CHIP3882	STM/STY	1	1	STM1254	putative ou STY1867
2621	CHIP3898	STM/STY	1	1	STM1287	arylsulfataç STY1829
2622	CHIP4011	STM/STY	1	1	STM2118	wza putative po STY2331
2623	CHIP2436	STM specif	1	0	STM3528	putative periplasmic pr
2624	CHIP2452	STM/STY	1	1	STM3554	ugpC ABC super STY4257
2625	CHIP4013	STM/STY	1	1	STM2120	asmA suppressor STY2333
2626	CHIP4029	STM/STY	1	1	STM2711	Fels-2 proç STY4616
2627	CHIP3757	STM/STY	1	1	STM0286	putative cyI STY0310
2628	CHIP3773	STM/STY	1	1	STM0313	dinP DNA polymr STY0358
2629	CHIP4007	STM/STY	1	1	STM2112	wcaD putative co STY2324
2630	CHIP4023	STM/STY	1	0	STM2137	putative cytoplasmic pr
2631	CHIP4047	STM specif	1	0	STM2740	Fels-2 prophage: similç
2632	CHIP4063	STM specif	1	0	STM2756	putative sugar phosphç
2633	CHIP3791	STM specif	1	0	STM1048	Gifsy-2 prophage; host
2634	CHIP3807	STM/STY	1	1	STM1082	bacterial re STY1106
2635	CHIP3425	STM/STY	1	1	STM0869	paral putati STY0902
2636	CHIP3441	STM specif	1	0	STM0897	Fels-1 prophage
2637	CHIP3457	STM specif	1	0	STM0914	Fels-1 prophage; putat
2638	CHIP3473	STM/STY	1	1	STM0932	putative nu STY0928
2639	CHIP3113	STM/STY	1	1	STM2543	nifS putative an STY2789
2640	CHIP3129	STM specif	1	0	STM2585	Gifsy-1 prophage: simi
2641	CHIP3099	STM/STY	1	1	STM2511	guaB IMP dehydç STY2752

2642	CHIP3499	STM/STY	1	1	STM0986	ycaQ	putative cy	STY0987
2643	CHIP3524	STM specil	1	0	STM1033		Gifsy-2 prophage; rese	
2644	CHIP3556	STM specil	1	0	STM4215		putative cytoplasmic pr	
2645	CHIP4148	STM/STY	1	1	STM2851	hycC	hydrogena	STY2973
2646	CHIP4172	STM/STY	1	1	STM2922		putative 3- $\gamma$	STY3047
2647	CHIP3078	STM/STY	1	1	STM2474	tkkB	transketola	STY2711
2648	CHIP3478	STM/STY	1	1	STM0945	clpA	ATP-bindin	STY0943
2649	CHIP3502	STM/STY	1	1	STM0989		mukF prote	STY0991
2650	CHIP3527	STM specil	1	0	STM1036		Gifsy-2 prophage; prot	
2651	CHIP3543	STM specil	1	0	STM4201		putative phage tail prot	
2652	CHIP3567	STM/STY	1	1	STM4243	yjbN	putative TII	STY4439
2653	CHIP3665	STM/STY	1	1	STM4442		putative cy	STY4781
2654	CHIP3009	STM/STY	1	1	STM2318	nuoL	NADH deh	STY2548
2655	CHIP3025	STM/STY	1	1	STM2344		putative ph	STY2574
2656	CHIP2277	STM/STY	1	1	STM1117	agp	glucose-1- $\gamma$	STY1153
2657	CHIP0218	STM/STY	1	1	STM1259		putative AT	STY1861
2658	CHIP2325	STM/STY	1	1	STM1112	cbpA	curved DN	STY1148
2659	CHIP2319	STM/STY	1	1	STM1067	fabA	beta-hydro	STY1088
2660	CHIP0260	STM/STY	1	1	STM2516	sinI	putative ou	STY2761
2661	CHIP0284	STM/STY	1	1	STM0026	bcfF	fimbrial sut	STY0031
2662	CHIP2956	STM/STY	1	0	STM1987		putative inr	STY2194
2663	CHIP2972	STM/STY	1	1	STM2066	sopA	Secreted e	STY2275
2664	CHIP2988	STM/STY	1	0	STM2275		putative re	STY2504
2665	CHIP2958	STM/STY	1	1	STM1989	yedI	putative inr	STY2196
2666	CHIP2974	STM/STY	1	1	STM2069	yeeY	putative tra	STY2278
2667	CHIP2990	STM/STY	1	1	STM2280		putative pe	STY2509
2668	CHIP3006	STM/STY	1	1	STM2314		putative ch	STY2545
2669	CHIP3030	STM/STY	1	1	STM2358		putative cy	STY2588
2670	CHIP2282	STM/STY	1	0	STM1187	rluC	23S rRNA	STY1227
2671	CHIP0553	STM/STY	1	1	STM1174	flgB	flagellar bic	STY1213
2672	CHIP0569	STM/STY	1	1	STM3446	fusA	protein cha	STY4352
2673	CHIP1332	STM/STY	1	1	STM0340	stbA	putative fir	STY0373
2674	CHIP1348	STM/STY	1	1	STM0162		putative inr	STY0184
2675	CHIP1468	STM/STY	1	1	STM0442	cyoB	cytochrom	STY0484
2676	CHIP1484	STM/STY	1	1	STM4272		putative inr	STY4470
2677	CHIP1470	STM/STY	1	1	STM4182	metA	homoserin	STY4400
2678	CHIP1406	STM/STY	1	1	STM0139	yacF	putative cy	STY0161
2679	CHIP0492	STM/STY	1	1	STM2301	pqaB	putative m	STY2531
2680	CHIP3939	STM specil	1	0	STM1361	ydiM	putative MFS family tra	
2681	CHIP3955	STM/STY	1	1	STM1436	nemA	N-ethylmal	STY1686
2682	CHIP0556	STM/STY	1	1	STM0399	brnQ	LIVCS fam	STY0435
2683	CHIP0558	STM/STY	0	0				STY1709
2684	CHIP0574	STM/STY	1	1	STM4228	malF	ABC super	STY4424
2685	CHIP1337	STM/STY	1	1	STM0322	proA	gamma-glu	STY0367
2686	CHIP1361	STM/STY	1	1	STM0166	speE	spermidine	STY0188
2687	CHIP1377	STM/STY	1	1	STM2001	yeel	putative inr	STY2208
2688	CHIP1489	STM/STY	1	1	STM2403	glk	glucokinas	STY2644
2689	CHIP1508	STM/STY	1	1	STM2307	menB	dihydroxyn	STY2537
2690	CHIP1524	STM/STY	1	1	STM2295	yfaO	putative N1	STY2525
2691	CHIP1548	STM/STY	1	1	STM2546	suhB	inositol mo	STY2792
2692	CHIP1025	STM/STY	1	1	STM4472	ytgA	putative inr	STY4811
2693	CHIP1588	STM/STY	1	1	STM0535	lpxH	UDP-2,3-di	STY0583

2694	CHIP3136	STM specil	1	0	STM2592	Gifsy-1 prophage: simi
2695	CHIP3146	STM specil	1	0	STM2602	Gifsy-1 prophage: simi
2696	CHIP2022	STM/STY	1	1	STM4566 yjjI	putative cyf STY4917
2697	CHIP2038	STM/STY	1	1	STM3700 gpsA	glycerol-3- $\phi$ STY4095
2698	CHIP2054	STM/STY	1	1	STM3610 yhjG	putative inr STY4193
2699	CHIP2070	STM/STY	1	1	STM3514 malP	maltodextrin STY4282
2700	CHIP1519	STM/STY	1	1	STM2406	putative ox STY2647
2701	CHIP1553	STM/STY	1	1	STM2483 dapE	N-succinyl- STY2721
2702	CHIP1030	STM/STY	1	1	STM0959 lrp	regulator fc STY0957
2703	CHIP1593	STM/STY	1	1	STM0569 ybdG	putative tra STY0618
2704	CHIP2001	STM/STY	1	1	STM4437 yjgA	putative cyf STY4776
2705	CHIP2017	STM/STY	0	0		STY4897
2706	CHIP2033	STM/STY	1	1	STM3734 rph	RNase PH STY4060
2707	CHIP3191	STM/STY	1	1	STM3212 mug	DNA glyco: STY3391
2708	CHIP3207	STM/STY	1	1	STM3255	putative ph STY3437
2709	CHIP2083	STM/STY	1	1	STM3735 yicC	putative str STY4059
2710	CHIP0689	STM/STY	1	0	STM4524 hsdS	specificity determinant
2711	CHIP0705	STM/STY	1	1	STM0117 ilvH	acetolactat STY0136
2712	CHIP0633	STM/STY	1	1	STM2888 spaR	surface pre STY3011
2713	CHIP1870	STM/STY	1	1	STM0736 sucA	2-oxogluta STY0779
2714	CHIP0676	STM/STY	1	1	STM4299 melB	GPH family STY4498
2715	CHIP0700	STM/STY	1	1	STM2675 rimM	16S rRNA STY2862
2716	CHIP0716	STM/STY	1	1	STM2550 asrC	anaerobic : STY2796
2717	CHIP0732	STM/STY	1	1	STM2072 hisD	histidinal d: STY2281
2718	CHIP0668	STM/STY	1	1	STM0320 phoE	outer mem STY0365
2719	CHIP0623	STM/STY	1	1	STM0494 ushA	UDP-sugar STY0539
2720	CHIP0639	STM/STY	1	1	STM1058 pyrD	dihydro-orc STY1079
2721	CHIP0663	STM/STY	1	1	STM4319 phoN	non-specific STY4519
2722	CHIP1810	STM/STY	1	1	STM4063 sbp	ABC super STY3808
2723	CHIP1842	STM/STY	1	1	STM0668 ybeY	putative m $\epsilon$ STY0714
2724	CHIP1874	STM/STY	1	1	STM0723	putative AE STY0764
2725	CHIP0178	STM/STY	1	1	STM2039 pudB	Propanedic STY2244
2726	CHIP1221	STM/STY	1	1	STM4309	putative pe STY4510
2727	CHIP1237	STM/STY	1	1	STM1951 yecC	putative AE STY2159
2728	CHIP1261	STM/STY	1	1	STM1677	putative tra STY1386
2729	CHIP0450	STM/STY	0	0		
2730	CHIP1301	STM/STY	1	1	STM0058 citC2	putative cit STY0067
2731	CHIP4692	STM/STY	1	0	STM1268	putative cytoplasmic pr
2732	CHIP0133	STM/STY	1	1	STM4176 purH	bifunctiona STY3709
2733	CHIP0149	STM/STY	1	1	STM2536 pepB	putative anr STY2782
2734	CHIP0181	STM/STY	1	1	STM2042 pduE	Propanedic STY2247
2735	CHIP1224	STM/STY	1	1	STM4301 dcuB	Dcu family, STY4500
2736	CHIP1240	STM/STY	1	1	STM1931 araH	putative int STY2140
2737	CHIP0407	STM/STY	1	1	STM1195 fabG	3-oxoacyl-[ STY1234
2738	CHIP1258	STM/STY	1	1	STM1664	putative tra STY1400
2739	CHIP1282	STM/STY	1	1	STM2667 pheA	bifunctional: STY2854
2740	CHIP1298	STM/STY	1	1	STM0005 yaaA	putative cyf STY0005
2741	CHIP1314	STM/STY	1	1	STM3794	putative re $\phi$ STY3988
2742	CHIP4695	STM/STY	1	1	STM1474	pseudogen STY1648
2743	CHIP1788	STM/STY	1	1	STM4037 fdoG	formate de STY3839
2744	CHIP0018	STM/STY	1	1	STM3969 yigN	putative inr STY3590
2745	CHIP0050	STM/STY	1	1	STM3936 hemX	uroporphyr STY3623

2746	CHIP2178	STM/STY	1	1	STM3068	fba	fructose-bi: STY3226
2747	CHIP0866	STM/STY	1	1	STM1976	fliM	flagellar bic STY2184
2748	CHIP0882	STM/STY	0	0			STY2665
2749	CHIP1719	STM/STY	1	1	STM1789		putative hy STY1916
2750	CHIP0908	STM/STY	1	1	STM3287	nusA	transcriptio STY3468
2751	CHIP1767	STM/STY	1	1	STM2970	sdaC	putative H/ STY3109
2752	CHIP1783	STM/STY	1	1	STM4052		putative C4 STY3820
2753	CHIP0013	STM/STY	1	1	STM3975	tatC	part of sec STY3584
2754	CHIP0029	STM/STY	1	1	STM3958	recQ	ATP-deper STY3601
2755	CHIP0031	STM/STY	1	1	STM3956	yigl	putative prc STY3603
2756	CHIP1563	STM/STY	1	1	STM0489	hemH	ferrochelate STY0533
2757	CHIP0087	STM/STY	0	0	STM4146	tufB	protein cha STY3739
2758	CHIP0871	STM/STY	1	1	STM1970	fliG	flagellar bic STY2178
2759	CHIP0887	STM/STY	1	1	STM2947	cysI	sulfite redu STY3075
2760	CHIP1738	STM/STY	1	1	STM2999	ppdB	prepilin peç STY3137
2761	CHIP2840	STM/STY	1	1	STM1686	pspE	phage shor STY1375
2762	CHIP4401	STM/STY	1	1	STM0501	ybbK	putative inr STY0547
2763	CHIP4417	STM/STY	1	1	STM0526	yIbA	putative gly STY0574
2764	CHIP4441	STM specil	1	0	STM0575		putative inner membra
2765	CHIP1197	STM/STY	1	1	STM1636		putative AE STY1435
2766	CHIP2849	STM/STY	1	1	STM1711	ribA	GTP cyclot STY1340
2767	CHIP2867	STM/STY	1	1	STM1761	narI	nitrate redt STY1291
2768	CHIP2883	STM/STY	1	1	STM1801	ycgO	putative CF STY1929
2769	CHIP2899	STM/STY	1	1	STM1834	yebN	putative Ye STY1963
2770	CHIP2915	STM/STY	1	1	STM1860		putative tra STY1995
2771	CHIP2939	STM/STY	1	1	STM1907	cutC	copper hon STY2115
2772	CHIP4396	STM/STY	1	1	STM0491	gsk	inosine-guç STY0535
2773	CHIP1138	STM/STY	1	1	STM1533		putative hy STY1530
2774	CHIP1154	STM/STY	1	1	STM1523	yneJ	putative tra STY1537
2775	CHIP1186	STM/STY	1	1	STM0973	pflB	pyruvate fo STY0973
2776	CHIP4470	STM/STY	1	1	STM0621	citF	bifunctiona STY0670
2777	CHIP2766	STM/STY	1	1	STM1562		putative pe STY1501
2778	CHIP2782	STM/STY	1	1	STM1594	srfB	ssrAB activ STY1471
2779	CHIP2472	STM/STY	1	1	STM3597	gor	glutathione STY4205
2780	CHIP2488	STM/STY	1	1	STM3631		putative xa STY4166
2781	CHIP4624	STM specil	1	0	STM4503		putative inner membra
2782	CHIP2528	STM/STY	1	1	STM3730	dfp	flavoproteir STY4064
2783	CHIP4193	STM/STY	1	1	STM2956	relA	(p)ppGpp ç STY3094
2784	CHIP4305	STM/STY	1	1	STM2680		putative cyI STY2867
2785	CHIP4339	STM/STY	1	0	STM0382		putative pe STY0414
2786	CHIP4363	STM/STY	1	0	STM0437		putative periplasmic pr
2787	CHIP4379	STM/STY	1	1	STM0463	amtB	putative An STY0507
2788	CHIP2475	STM specil	1	0	STM3600		putative sugar kinases
2789	CHIP2499	STM/STY	1	1	STM3660	xylB	xylulokinas STY4138
2790	CHIP2515	STM/STY	1	0	STM3691		putative inr STY4105
2791	CHIP4326	STM/STY	1	1	STM4389	yjF	putative ou STY4745
2792	CHIP4342	STM/STY	1	1	STM0388	aroL	shikimate k STY0421
2793	CHIP4358	STM/STY	1	1	STM0421	yajO	putative ox STY0460
2794	CHIP4286	STM/STY	0	0			STY3333
2795	CHIP4590	STM/STY	1	1	STM2847	hycG	hydrogena: STY2969
2796	CHIP2502	STM/STY	1	1	STM3664	malS	alpha-amyl STY4134
2797	CHIP2132	STM/STY	1	1	STM3335	yhcH	putative cyI STY3515

2798	CHIP2148	STM/STY	1	1	STM3263	yraL	putative mε	STY3446
2799	CHIP2164	STM/STY	1	1	STM3153	yqhA	putative mε	STY3326
2800	CHIP4489	STM/STY	1	1	STM0364	foxA	ferrioxamin	STY0396
2801	CHIP4513	STM/STY	1	1	STM2802	ygaM	putative inr	STY2925
2802	CHIP4529	STM/STY	1	1	STM2201	yeiE	putative tra	STY2436
2803	CHIP4491	STM/STY	1	0	STM0373	yaiU	flagellar protein; simila	
2804	CHIP1639	STM/STY	1	1	STM2183	cdd	cytidine/de	STY2413
2805	CHIP1655	STM/STY	1	1	STM2085	rfbN	LPS side c	STY2294
2806	CHIP4555	STM/STY	1	1	STM2141	fbaB	3-oxoacyl-[	STY2370
2807	CHIP4571	STM/STY	1	1	STM2174	yohl	putative nit	STY2404
2808	CHIP1903	STM/STY	1	1	STM3417	rpsK	30S riboso	STY4381
2809	CHIP1665	STM/STY	1	1	STM2108	wcaG	bifunctiona	STY2320
2810	CHIP4565	STM/STY	1	1	STM2167	dld	D-lactate d	STY2397
2811	CHIP1897	STM/STY	1	1	STM0262	yafS	putative S†	STY0283
2812	CHIP2105	STM/STY	1	1	STM3624	yhjU	putative inr	STY4176
2813	CHIP2121	STM/STY	1	1	STM3546	yhhY	putative tra	STY4265
2814	CHIP2137	STM/STY	1	1	STM3307	murA	UDP-N-acε	STY3486
2815	CHIP1947	STM/STY	1	1	STM4385	ptxA	putative PT	STY4741
2816	CHIP1963	STM/STY	1	1	STM4468	yjgK	putative cy†	STY4806
2817	CHIP1979	STM/STY	1	1	STM4587	creA	putative pe	STY4934
2818	CHIP0289	STM/STY	1	1	STM3740	gmk	guanylate †	STY4052
2819	CHIP2204	STM/STY	1	1	STM3298	yhbY	putative R†	STY3476
2820	CHIP2220	STM/STY	1	1	STM3228	yqjC	putative pe	STY3408
2821	CHIP2191	STM/STY	1	1	STM3349	degS	periplasmic	STY3529
2822	CHIP2207	STM/STY	1	1	STM3262		transcriptio	STY3445
2823	CHIP2223	STM/STY	1	1	STM3225	ygjU	putative dic	STY3405
2824	CHIP0356	STM/STY	1	1	STM0628	pagP	PhoPQ-act	STY0677
2825	CHIP0372	STM/STY	1	1	STM0170	hpt	hypoxanthi	STY0192
2826	CHIP3331	STM/STY	1	1	STM0722		putative AE	STY0762
2827	CHIP0351	STM/STY	1	1	STM4344	yjeA	putative py	STY4704
2828	CHIP0367	STM/STY	1	1	STM1405	sseG	Secretion ε	STY1715
2829	CHIP0383	STM/STY	1	1	STM1521	marC	putative Mε	STY1539
2830	CHIP3350	STM specil	1	0	STM0762		fumarate hydratase, al	
2831	CHIP3382	STM/STY	1	1	STM0808	ybhM	putative int	STY0843
2832	CHIP3414	STM specil	1	0	STM0855		putative electron transf	
2833	CHIP3702	STM/STY	1	0	STM4521	yjiS	putative cytoplasmic pr	
2834	CHIP4264	STM specil	1	0	STM3117		putative lactoylglutathic	
2835	CHIP4383	STM/STY	1	1	STM0469	rpmE2	putative 50	STY0512
2836	CHIP4196	STM/STY	1	1	STM2965	yqcC	putative cy†	STY3104
2837	CHIP4253	STM/STY	0	0				STY3242
2838	CHIP0505	STM specil	1	0	STM1866		pseudogene; in-frame	
2839	CHIP3580	STM/STY	1	1	STM4271		putative inr	STY4469
2840	CHIP3557	STM specil	1	0	STM4216		putative inner membra	
2841	CHIP3581	STM/STY	1	1	STM4274	yjch	putative inr	STY4472
2842	CHIP3526	STM specil	1	0	STM1035		Gifsy-2 prophage; ATP	
2843	CHIP1906	STM/STY	1	1	STM3422	rpmD	50S riboso	STY4376
2844	CHIP0997	STM specil	0	0	STM1012		Gifsy-2 prophage; prot	
2845	CHIP4670	STM/STY	1	1	STM4562		putative inr	STY4912
2846	CHIP1174	STM/STY	1	1	STM1564	yddX	putative cy†	STY1496
2847	CHIP1207	STM/STY	1	0	STM2717		Fels-2 proφ	STY4622
2848	CHIP1152	STM/STY	1	1	STM0623	citD	citrate lyas†	STY0672
2849	CHIP1184	STM/STY	1	1	STM0953	infA	protein cha	STY0951

2850	CHIP1208	STM/STY	1	1	STM2716	Fels-2 prophage	STY4621
2851	CHIP1407	STM/STY	1	1	STM0140	yacE	putative nu
2852	CHIP1345	STM/STY	1	1	STM0280		putative ou
2853	CHIP1362	STM/STY	1	1	STM0181	panC	pantothena
2854	CHIP1452	STM/STY	1	1	STM0389	yaiA	putative cyf
2855	CHIP2619	STM/STY	1	1	STM0020		putative cyf
2856	CHIP4285	STM/STY	1	1	STM3160		putative inr
2857	CHIP2911	STM/STY	1	1	STM1852	yebW	putative inr
2858	CHIP2777	STM/STY	1	1	STM1585		putative ou
2859	CHIP1560	STM/STY	1	1	STM0470	rpmJ2	putative 50
2860	CHIP2901	STM/STY	1	1	STM1838	yobF	putative cyf
2861	CHIP2767	STM/STY	1	1	STM1565	rpsV	30S riboso
2862	CHIP3360	STM/STY	1	1	STM0780		putative ou
2863	CHIP0652	STM specil	1	0	PSLT041	spvR	Salmonella plasmid vir
2864	CHIP1107	STM specil	1	0	PSLT098	traQ	conjugative transfer: fir
2865	CHIP1092	STM specil	1	0	PSLT083	trbD	conjugative transfer:
2866	CHIP0622	STM specil	1	0	PSLT103	traT	conjugative transfer: st
2867	CHIP1069	STM specil	1	0	PSLT052	parA	plasmid partition protei
2868	CHIP1101	STM specil	1	0	PSLT092	traU	conjugative transfer: a:
2869	CHIP4885	none	0	0	R460021	nuc	
2870	CHIP4879	none	0	0	R460014	eex	
2871	CHIP4872	none	0	0	R460007	korB	
2872	CHIP4873	none	0	0	R460008	traL	
2873	CHIP4907	none	0	0	R460061	arsB	
2874	CHIP4901	none	0	0	R460054	tetR	
2875	CHIP4825	STM specil	1	0	STM2703		Fels-2 prophage: simil
2876	CHIP4829	STM specil	0	0			
2877	CHIP4833	STM specil	1	0	STM0912		Fels-1 prophage; prote
2878	CHIP4837	STM/STY	0	0			
2879	CHIP4841	STM/STY	0	0			
2880	CHIP4845	STM specil	0	0			
2881	CHIP5013	STY specif	0	1			STY1499
2882	CHIP5029	STY specif	0	1			STY1605
2883	CHIP5045	STY specif	0	1			STY1621
2884	CHIP5060	STY specif	0	1			STY1639
2885	CHIP5076	STY specif	0	1			STY2005
2886	CHIP5089	STY specif	0	1			STY2028
2887	CHIP5031	STY specif	0	1			STY1607
2888	CHIP5047	STY specif	0	1			STY1623
2889	CHIP5062	STM/STY	0	1			STY1649
2890	CHIP5078	STY specif	0	1			STY2007
2891	CHIP5091	STY specif	0	1			STY2030
2892	CHIP5200	STY specif	0	1			STY3192
2893	CHIP4954	STY specif	0	1			STY1014
2894	CHIP4970	STY specif	0	1			STY1041
2895	CHIP4985	STY specif	0	1			STY1057
2896	CHIP5001	STY specif	0	0			STY1073
2897	CHIP5202	STY specif	0	1			STY3277
2898	CHIP5214	STM/STY	0	0	STM0768	dcoB	Oxalacetat
2899	CHIP4972	STM/STY	0	0			STY3531
2900	CHIP4987	STY specif	0	1			STY1059
2901	CHIP5095	STY specif	0	0			STY2034



2902	CHIP5204	STY specif	0	1			STY3279
2903	CHIP5134	STY specif	0	1			STY2075
2904	CHIP5150	STY specif	0	1			STY2353
2905	CHIP5300	STY specif	0	1			STY4524
2906	CHIP5315	STY specif	0	1			STY4548
2907	CHIP5329	STY specif	0	1			STY4568
2908	CHIP5345	STY specif	0	1			STY4585
2909	CHIP5361	STY specif	0	1			STY4602
2910	CHIP5293	STY specif	0	1			STY4414
2911	CHIP5364	STM/STY	0	0			
2912	empty	none	0	0			
2913	empty	none	0	0			
2914	empty	none	0	0			
2915	empty	none	0	0			
2916	empty	none	0	0			
2917	CHIP0842	STM/STY	1	1	STM1780	prsA	phosphorib STY1906
2918	CHIP2657	STM/STY	1	1	STM0106	yabJ	putative AE STY0123
2919	CHIP3249	STM/STY	1	1	STM3338	nanT	MFS family STY3519
2920	CHIP3265	STM/STY	1	1	STM3372	mreD	rod shape- STY3552
2921	CHIP2713	STM/STY	1	1	STM0214	glnD	uridylyltran: STY0237
2922	CHIP3305	STM/STY	1	1	STM0682	nagC	transcriptio STY0720
2923	CHIP3275	STM/STY	1	0	STM3390	acrE	transmemt STY3569
2924	CHIP2723	STM/STY	1	1	STM0235	yaeR	putative lac STY0260
2925	CHIP2739	STM/STY	1	0	STM1515	ydeI	putative periplasmic pr
2926	CHIP0781	STM/STY	1	1	STM1964	yedD	putative ou STY2172
2927	CHIP0797	STM/STY	1	1	STM3710	rfaD	ADP-L-glyc STY4085
2928	CHIP0813	STM/STY	1	1	STM2025	cbiK	synthesis c STY2229
2929	CHIP0783	STM/STY	1	1	STM1963	amyA	cytoplasmic STY2171
2930	CHIP0807	STM/STY	1	1	STM2031	cbiE	synthesis c STY2236
2931	CHIP0823	STM/STY	1	1	STM1997	umuC	error-prone STY2205
2932	CHIP2630	STM/STY	1	1	STM0046	ileS	isoleucine t STY0055
2933	CHIP2646	STM/STY	1	1	STM0082		putative se STY0095
2934	CHIP3238	STM/STY	1	1	STM3311	yrbD	putative AE STY3490
2935	CHIP3784	STM specif	1	0	STM0331		putative fumarylacetoa
2936	CHIP3800	STM/STY	1	1	STM1066	rmf	ribosome n STY1087
2937	CHIP3824	STM/STY	1	1	STM1109		putative pe STY1143
2938	CHIP3840	STM/STY	1	1	STM1151	mdoH	membrane STY1188
2939	CHIP3856	STM/STY	1	1	STM1200	tmk	thymidylate STY1239
2940	CHIP3872	STM/STY	1	1	STM1220	ycfX	putative re STY1260
2941	CHIP3834	STM/STY	1	1	STM1131		putative ou STY1168
2942	CHIP3850	STM/STY	1	1	STM1185	rne	RNase E STY1226
2943	CHIP3866	STM/STY	1	1	STM1212	ycfJ	putative ou STY1252
2944	CHIP2442	STM specif	1	0	STM3533		putative bacterial trans
2945	CHIP2458	STM/STY	1	1	STM3572	yhhF	putative m STY4239
2946	CHIP3723	STM/STY	1	1	STM4567	deoC	2-deoxyrib STY4918
2947	CHIP3884	STM/STY	1	1	STM1264	aadA	Aminoglyc STY1857
2948	CHIP3900	STM/STY	1	1	STM1289	yeaD	putative en STY1827
2949	CHIP3725	STM specif	1	0	STM4571		putative outer membra
2950	CHIP3741	STM/STY	1	1	STM0002	thrA	aspartokin STY0002
2951	CHIP4053	STM specif	1	0	STM2746		putative Excinuclease ,
2952	CHIP4069	STM specif	1	0	STM2762		putative inner membra
2953	CHIP3719	STM/STY	1	1	STM4549		putative cy STY4902

2954	CHIP3735	STM/STY	1	1	STM4589	creC	sensory kir	STY4936
2955	CHIP3759	STM/STY	1	0	STM0288		putative cy	STY0317
2956	CHIP4071	STM specil	1	0	STM2764		putative integrase core	
2957	CHIP4087	STM/STY	1	1	STM2789		putative cy	STY2909
2958	CHIP3815	STM/STY	1	1	STM1095	copS	Copper res	STY1127
2959	CHIP3049	STM/STY	1	1	STM2389	yfcY	paral putati	STY2621
2960	CHIP3065	STM/STY	1	1	STM2425	yfeH	putative N <sub>2</sub>	STY2661
2961	CHIP3081	STM/STY	1	1	STM2478		putative be	STY2716
2962	CHIP3481	STM/STY	1	1	STM0950		homologue	STY0948
2963	CHIP3497	STM/STY	1	1	STM0981	rpsA	30S riboso	STY0981
2964	CHIP3513	STM/STY	0	1	STM1020		Gifsy-2 pro	STY1034
2965	CHIP3483	STM/STY	1	1	STM0955	aat	leucyl, phe	STY0953
2966	CHIP3123	STM/STY	1	1	STM2564	yfhK	putative se	STY2811
2967	CHIP4100	STM/STY	1	1	STM4031		putative cy	STY3847
2968	CHIP4132	STM/STY	1	1	STM4109	talC	putative tra	STY3758
2969	CHIP4156	STM/STY	1	1	STM2868		putative cy	STY2989
2970	CHIP3604	STM/STY	1	1	STM4327	fxsA	suppresses	STY4687
2971	CHIP3086	STM/STY	1	1	STM2487	purC	phosphorib	STY2725
2972	CHIP3110	STM/STY	1	1	STM2535	sseB	enhances :	STY2781
2973	CHIP3126	STM/STY	1	1	STM2570		putative ph	STY2816
2974	CHIP4103	STM/STY	1	1	STM4044		putative iro	STY3830
2975	CHIP4119	STM/STY	1	1	STM4086	glpK	glycerol kin	STY3784
2976	CHIP4143	STM/STY	1	1	STM4122	argB	acetylgluta	STY3751
2977	CHIP2993	STM/STY	1	1	STM2284	glpA	sn-glycerol	STY2513
2978	CHIP3689	STM specil	1	0	STM4498		putative inner membra	
2979	CHIP3705	STM/STY	1	1	STM4526	hsdR	endonuclea	STY4884
2980	CHIP0202	STM/STY	1	1	STM1922	motB	enables fla	STY2131
2981	CHIP2301	STM/STY	1	1	STM1323	yniB	putative re	STY1788
2982	CHIP0250	STM/STY	1	1	STM0370	prpD	putative pr	STY0402
2983	CHIP0244	STM/STY	1	1	STM4237	lexA	SOS respo	STY4433
2984	CHIP0268	STM/STY	1	1	STM2861	sitA	Salmonella	STY2983
2985	CHIP2367	STM/STY	1	1	STM1445	slyB	putative ou	STY1677
2986	CHIP3636	STM/STY	1	1	STM4398	cycA	APC family	STY4754
2987	CHIP3652	STM specil	1	0	STM4425		putative dehydrogenas	
2988	CHIP3668	STM/STY	1	1	STM4448		putative ph	STY4787
2989	CHIP3638	STM/STY	1	1	STM4403	cpdB	2':3'-cyclic-	STY4761
2990	CHIP3654	STM specil	1	0	STM4427		putative endonuclease	
2991	CHIP3670	STM/STY	1	1	STM4454	treB	pseudogen	STY4794
2992	CHIP3686	STM specil	1	0	STM4495		putative type II restricti	
2993	CHIP3710	STM specil	1	0	STM4536		putative PTS permeas	
2994	CHIP0215	STM/STY	1	1	STM1256		putative AE	STY1864
2995	CHIP3984	STM/STY	1	1	STM1493		putative pe	STY1571
2996	CHIP1316	STM/STY	1	1	STM3801	dsdX	putative Gr	STY3978
2997	CHIP1428	STM/STY	1	1	STM3826	torS	sensory kir	STY3951
2998	CHIP1444	STM/STY	1	1	STM0360		cytochrom $\epsilon$	STY0392
2999	CHIP1380	STM/STY	1	1	STM0077	fixC	related to c	STY0087
3000	CHIP1396	STM/STY	1	1	STM0151	pdhR	transcriptio	STY0174
3001	CHIP1478	STM/STY	1	1	STM4238	dinF	DNA-dama	STY4434
3002	CHIP1502	STM/STY	1	1	STM2330	lrhA	NADH deh	STY2560
3003	CHIP3923	STM/STY	1	1	STM1342	btuD	ABC super	STY1768
3004	CHIP0516	STM/STY	1	1	STM0865	ybjG	putative pe	STY0898
3005	CHIP3963	STM/STY	1	1	STM1458	ydgM	putative alt	STY1664

3006	CHIP3987	STM/STY	1	1	STM1499	putative dir	STY1565
3007	CHIP3989	STM/STY	1	1	STM1501 ynfC	putative inr	STY1562
3008	CHIP1321	STM/STY	1	1	STM3791	putative cyI	STY3991
3009	CHIP1433	STM/STY	1	1	STM2574	putative pe	STY2820
3010	CHIP1457	STM/STY	1	1	STM0404 queA	S-adenosyl	STY0442
3011	CHIP1473	STM/STY	1	1	STM4192	putative cyI	STY4409
3012	CHIP1497	STM/STY	1	1	STM2368 truA	pseudourid	STY2599
3013	CHIP0969	STM/STY	1	0	STM0347	putative re	STY0381
3014	CHIP1532	STM/STY	1	1	STM2527	putative po	STY2772
3015	CHIP1556	STM/STY	1	1	STM0460 mdlA	putative AE	STY0503
3016	CHIP1572	STM/STY	1	1	STM0566	putative inr	STY0614
3017	CHIP4741	STM/STY	1	1	STM1329	putative inr	STY1782
3018	CHIP1996	STM/STY	1	1	STM4408 msrA	peptide me	STY4767
3019	CHIP2006	STM/STY	1	1	STM4476 holC	DNA polym	STY4815
3020	CHIP3170	STM/STY	1	1	STM2648 yfiF	putative tR	STY2841
3021	CHIP3186	STM/STY	1	1	STM3199 yqiK	paral putati	STY3378
3022	CHIP3202	STM/STY	1	1	STM3241 tdcE	pyruvate fo	STY3423
3023	CHIP3218	STM/STY	1	1	STM3274 yhbU	putative pr	STY3457
3024	CHIP0988	STM/STY	1	1	STM4099 metJ	transcriptio	STY3770
3025	CHIP1014	STM/STY	1	0	STM1380 orf32	putative hydrolase or a	
3026	CHIP1577	STM/STY	1	1	STM0471 ylaC	putative inr	STY0514
3027	CHIP1601	STM/STY	1	1	STM2791 gabD	succinate-ε	STY2911
3028	CHIP3149	STM specil	1	0	STM2605	Gifsy-1 prophage: simi	
3029	CHIP3165	STM/STY	1	1	STM2639 rseA	anti sigma	STY2832
3030	CHIP3181	STM/STY	1	0	STM3191	putative arylsulfate sulf	
3031	CHIP2051	STM/STY	1	1	STM3619 yhjO	glycosyltra	STY4181
3032	CHIP3215	STM/STY	1	1	STM3269 yhbO	putative int	STY3452
3033	CHIP0577	STM/STY	1	1	STM1419 yscR	Secretion ε	STY1701
3034	CHIP0601	STM/STY	1	1	STM2499 purM	phosphorib	STY2740
3035	CHIP0713	STM/STY	1	1	STM1125 putP	SSS family	STY1160
3036	CHIP0729	STM/STY	1	1	STM2808 nrdF	ribonucleo	STY2933
3037	CHIP1878	STM/STY	1	1	STM0271	putative cyI	STY0292
3038	CHIP0588	STM/STY	1	1	STM2882 sipA	cell invasio	STY3005
3039	CHIP0612	STM/STY	1	1	STM3501 envZ	sensory his	STY4295
3040	CHIP0628	STM/STY	1	1	STM1694 sapC	ABC super	STY1357
3041	CHIP0644	STM/STY	1	1	STM4047 rhaB	rhamnuloki	STY3826
3042	CHIP0764	STM/STY	1	1	STM0550 fimY	putative re	STY0598
3043	CHIP0719	STM/STY	1	1	STM1224 sifA	lysosomal	STY1264
3044	CHIP0647	STM/STY	1	1	STM1163 pyrC	dihydro-orc	STY1201
3045	CHIP0671	STM/STY	1	1	STM3470 fic	putative ce	STY4326
3046	CHIP1818	STM/STY	1	1	STM4038 fdhD	putative for	STY3838
3047	CHIP1850	STM/STY	1	1	STM0640 mrdA	cell elonga	STY0691
3048	CHIP1882	STM/STY	1	1	STM0256 yafC	putative tra	STY0277
3049	CHIP3962	STM/STY	1	0	STM1457	putative respiratory-ch	
3050	CHIP0394	STM/STY	1	1	STM2884 sipC	cell invasio	STY3007
3051	CHIP0410	STM/STY	1	1	STM1171 flgN	flagellar bic	STY1210
3052	CHIP0434	STM/STY	1	1	STM4254 uvrA	UvrA with l	STY4450
3053	CHIP1285	STM/STY	1	1	STM2688 smpB	small prote	STY2874
3054	CHIP1309	STM/STY	1	1	STM0035	putative ar	STY0042
3055	CHIP0117	STM/STY	1	1	STM4139 coaA	pantothen	STY3740
3056	CHIP4716	STM/STY	1	1	STM3688	putative cyI	STY4108
3057	CHIP0157	STM/STY	1	1	STM3865 atpD	membrane	STY3913

3058	CHIP4347	STM/STY	1	1	STM0395	sbcC	ATP-deper	STY0429
3059	CHIP0397	STM/STY	1	1	STM2889	spaQ	surface pre	STY3012
3060	CHIP0413	STM/STY	1	1	STM2064	phsB	Hydrogen s	STY2270
3061	CHIP1242	STM/STY	1	1	STM1917	cheB	methyl est	STY2126
3062	CHIP1266	STM/STY	1	1	STM1709	yciS	putative inr	STY1342
3063	CHIP0455	STM/STY	1	1	STM1391	ssrB	Secretion s	STY1729
3064	CHIP0471	STM/STY	1	1	STM3722	rfaG	glucosyltra	STY4072
3065	CHIP4679	STM/STY	1	1	STM0348		putative inr	STY0382
3066	CHIP0120	STM/STY	1	0	STM4162	thiF	catalyzes tl	STY3723
3067	CHIP0002	STM/STY	1	1	STM3986	trkH	Trk family,	STY3574
3068	CHIP0493	STM/STY	1	1	STM2522	hisS	histidine tR	STY2767
3069	CHIP0058	STM/STY	1	1	STM3924	wecD	lipopolysac	STY3631
3070	CHIP0074	STM/STY	1	1	STM3905	ilvA	threonine c	STY3652
3071	CHIP1701	STM/STY	1	1	STM1762	narJ	nitrate redt	STY1290
3072	CHIP1717	STM/STY	1	1	STM1791		putative hy	STY1918
3073	CHIP1727	STM/STY	1	1	STM1735	yciB	putative int	STY1316
3074	CHIP0916	STM/STY	1	1	STM0145	nadC	quinolinate	STY0167
3075	CHIP0940	STM/STY	1	1	STM0426	phnV	2-aminoeth	STY0465
3076	CHIP1791	STM/STY	1	1	STM4035	fdol	formate de	STY3842
3077	CHIP0393	STM/STY	1	1	STM1395	ssaD	Secretion s	STY1725
3078	CHIP0761	STM/STY	1	1	STM0547	fimH	minor fimb	STY0594
3079	CHIP0039	STM/STY	1	1	STM3948	yigA	putative cy	STY3611
3080	CHIP0071	STM/STY	1	1	STM3909	ilvC	ketol-acid r	STY3648
3081	CHIP2699	STM/STY	1	1	STM0184	pcnB	poly(A) pol	STY0209
3082	CHIP1706	STM/STY	1	1	STM1831	manY	Sugar Spe	STY1960
3083	CHIP1722	STM/STY	1	1	STM1784	ychF	putative G	STY1910
3084	CHIP0911	STM/STY	1	1	STM2896	invA	invasion pr	STY3019
3085	CHIP4385	STM/STY	1	1	STM0474	ybaJ	putative cy	STY0517
3086	CHIP1141	STM/STY	1	1	STM1539		putative hy	STY1523
3087	CHIP1157	STM/STY	1	1	STM1516	ydeE	putative M	STY1544
3088	CHIP1181	STM/STY	1	1	STM0966	dmsC	anaerobic r	STY0964
3089	CHIP4465	STM/STY	1	1	STM0611		putative ox	STY0659
3090	CHIP2753	STM/STY	1	0	STM1546		putative m	STY1515
3091	CHIP2771	STM specil	1	0	STM1569	fdnH	formate dehydrogenas	
3092	CHIP2787	STM/STY	1	1	STM1602	sifB	Salmonella	STY1462
3093	CHIP2803	STM specil	1	0	STM1626	trg	methyl-accepting cherr	
3094	CHIP2819	STM/STY	1	1	STM1648	hslJ	heat shock	STY1421
3095	CHIP2843	STM/STY	1	1	STM1697		putative Di	STY1354
3096	CHIP4404	STM/STY	1	1	STM0508	ybbP	putative inr	STY0554
3097	CHIP4406	STM/STY	1	1	STM0511	sfbB	putative AE	STY0559
3098	CHIP4422	STM/STY	1	1	STM0536	ppiB	peptidyl-pr	STY0584
3099	CHIP4454	STM/STY	1	1	STM0595	entC	isochorism	STY0639
3100	CHIP1210	STM/STY	1	1	STM2710		Fels-2 pro	STY4615
3101	CHIP2870	STM/STY	1	1	STM1768	ychP	putative inv	STY1284
3102	CHIP2886	STM/STY	1	1	STM1806	nhaB	NhaB famil	STY1935
3103	CHIP4592	STM/STY	1	0	STM2729		Fels-2 prophage: simil	
3104	CHIP4608	STM/STY	1	1	STM3012		putative tra	STY3156
3105	CHIP2512	STM/STY	1	1	STM3683	selA	selenocyst	STY4113
3106	CHIP2536	STM/STY	1	1	STM3752		putative cy	STY4041
3107	CHIP4289	STM/STY	1	1	STM3168	ygiR	putative Fe	STY3342
3108	CHIP4217	STM/STY	1	1	STM3005	mutH	methyl-dire	STY3148
3109	CHIP4251	STM specil	1	0	STM3085		putative outer membra	

3110	CHIP4275	STM/STY	1	1	STM3137	putative urc	STY3308	
3111	CHIP4579	STM/STY	1	1	STM2810	proW	ABC super	STY2936
3112	CHIP4595	STM/STY	1	1	STM2800		putative inr	STY2923
3113	CHIP4619	STM/STY	1	1	STM3382	panF	SSS family	STY3562
3114	CHIP4635	STM specil	1	0	STM1040		Gifsy-2 prophage; prot	
3115	CHIP4238	STM/STY	1	1	STM3055	gcvT	glycine cle	STY3211
3116	CHIP4254	STM/STY	1	0	STM3089	yqgD	putative inner membra	
3117	CHIP4270	STM/STY	1	1	STM3124		putative re	STY3293
3118	CHIP4382	STM/STY	1	1	STM0468	ylaB	putative di	STY0511
3119	CHIP2478	STM/STY	1	1	STM3609	yhjE	putative Mf	STY4194
3120	CHIP4622	STM specil	1	0	STM4429		putative cytoplasmic pr	
3121	CHIP1948	STM/STY	1	1	STM4387	sgaU	putative he	STY4743
3122	CHIP1964	STM/STY	1	1	STM4474	yjgN	putative inr	STY4813
3123	CHIP1980	STM/STY	1	1	STM4590	creD	tolerance tr	STY4937
3124	CHIP1613	STM/STY	1	1	STM2841	ygbD	putative ox	STY2963
3125	CHIP1637	STM/STY	1	1	STM2180		putative tra	STY2410
3126	CHIP1653	STM/STY	1	1	STM2083	rfbK	LPS side c	STY2292
3127	CHIP1615	STM/STY	1	1	STM2801	ygaC	putative cy	STY2924
3128	CHIP4523	STM/STY	1	1	STM2193	folE	GTP cyclot	STY2427
3129	CHIP1663	STM/STY	1	1	STM2103	wcaJ	putative UI	STY2315
3130	CHIP1679	STM/STY	1	1	STM2176		putative glt	STY2406
3131	CHIP1695	STM/STY	1	1	STM1799	emtA	membrane	STY1927
3132	CHIP2095	STM/STY	1	1	STM3674	lyxK	L-xylulose	STY4122
3133	CHIP4549	STM specil	1	0	STM2240		putative cytoplasmic pr	
3134	CHIP1689	STM/STY	1	1	STM1842	kdgR	putative tra	STY1972
3135	CHIP2089	STM/STY	1	1	STM3690		putative inr	STY4106
3136	CHIP1921	STM/STY	1	1	STM3441	rpsJ	30S riboso	STY4357
3137	CHIP1937	STM/STY	1	1	STM4360	miaA	delta(2)-isc	STY4717
3138	CHIP2153	STM/STY	1	1	STM3240	tdcG	L-serine de	STY3422
3139	CHIP2139	STM/STY	1	1	STM3301	yhbZ	putative G	STY3480
3140	CHIP2155	STM/STY	1	1	STM3217	aer	aerotaxis s	STY3395
3141	CHIP2171	STM/STY	1	1	STM3139	gsp	bifunctiona	STY3310
3142	CHIP2180	STM/STY	1	1	STM3066	yggA	putative LY	STY3222
3143	CHIP0321	STM/STY	1	1	STM1178	flgF	flagellar bic	STY1217
3144	CHIP2228	STM/STY	1	1	STM3207	ygiH	putative inr	STY3386
3145	CHIP0308	STM/STY	1	1	STM1386	ttrS	Tetrathion	STY1735
3146	CHIP0324	STM specil	0	0	STM3753	sugR	ATP binding protein	
3147	CHIP2231	STM/STY	1	1	STM3194		putative di	STY3372
3148	CHIP2247	STM/STY	1	1	STM3103	yggV	putative X	STY3256
3149	CHIP2263	STM/STY	1	1	STM3051	bglA	6-phospho	STY3207
3150	CHIP3347	STM/STY	1	1	STM0759	ybgS	putative ho	STY0800
3151	CHIP2242	STM/STY	1	1	STM3136		putative D-	STY3307
3152	CHIP2258	STM/STY	1	1	STM3072		putative inr	STY3230
3153	CHIP2274	STM/STY	1	1	STM1105	hpaH	4-hydroxyp	STY1139
3154	CHIP3358	STM/STY	1	1	STM0777		putative inr	STY0810
3155	CHIP3390	STM/STY	1	1	STM0818		membrane	STY0853
3156	CHIP3422	STM/STY	1	1	STM0863	dacC	D-alanyl-D-	STY0896
3157	CHIP4381	STM/STY	1	1	STM0466	ybaZ	putative m	STY0510
3158	CHIP4343	STM/STY	1	1	STM0391	yaiE	putative cy	STY0424
3159	CHIP4273	STM/STY	1	0	STM3127		putative cy	STY3296
3160	CHIP4432	STM specil	1	0	STM0561		Sensor protein	
3161	CHIP4433	STM specil	1	0	STM0562		putative transport prote	

3162	CHIP1527	STM/STY	1	1	STM2541	yfhF	putative repressor	STY2787
3163	CHIP4508	STM/STY	1	1	STM1983	dsrB	regulatory	STY2191
3164	CHIP4541	STM specif	1	0	STM2231		homologue of msgA;	STY2191
3165	CHIP4518	STM/STY	1	1	STM2185	b2145	putative	STY2415
3166	CHIP4495	STM/STY	1	1	STM0825	ybil	putative	STY0862
3167	CHIP1962	STM/STY	1	1	STM4450		putative	STY4789
3168	CHIP2013	STM/STY	1	1	STM4523	yjiW	LexA regul.	STY4880
3169	CHIP4173	STM/STY	1	1	STM2923		putative	STY3048
3170	CHIP2309	STM/STY	1	1	STM1369	sufA	putative	STY1754
3171	CHIP2327	STM/STY	1	1	STM1123		putative	STY1158
3172	CHIP2359	STM/STY	1	1	STM1377	lpp	murein lipo	STY1745
3173	CHIP2496	STM/STY	1	1	STM3652		putative	STY4150
3174	CHIP2521	STM/STY	1	1	STM3703	yibN	putative	STY4092
3175	CHIP2624	STM/STY	1	0	STM0037		putative	STY0045
3176	CHIP2640	STM/STY	1	1	STM0071	caiC	crotonobet.	STY0081
3177	CHIP2625	STM/STY	1	1	STM0038		putative	STY0046
3178	CHIP2649	STM/STY	1	1	STM0087	folA	dihydrofola	STY0102
3179	CHIP2651	STM/STY	1	1	STM0091	pdxA	NAD-deper	STY0106
3180	CHIP2644	STM/STY	1	1	STM0080		putative	STY0091
3181	CHIP0995	STM specif	1	0	STM2630		Gifsy-1 prophage	
3182	CHIP2809	STM/STY	1	1	STM1632		putative	STY1439
3183	CHIP2842	STM/STY	1	1	STM1689	pspB	phage sho	STY1372
3184	CHIP2835	STM/STY	1	1	STM1673		putative	STY1391
3185	CHIP2805	STM specif	1	0	STM1628		putative cytoplasmic	
3186	CHIP3184	STM/STY	1	1	STM3196	yqiC	putative	STY3375
3187	CHIP1067	STM specif	1	0	PSLT044		putative integrase	
3188	CHIP1060	STM specif	1	0	PSLT028	ccdB	toxin addiction system:	
3189	CHIP1100	STM specif	1	0	PSLT091	traW	conjugative transfer:	
3190	CHIP0654	STM specif	1	0	PSLT037	spvD	Salmonella plasmid vir	
3191	CHIP1077	STM specif	1	0	PSLT063		putative cytoplasmic	
3192	CHIP1109	STM specif	1	0	PSLT100	traH	conjugative transfer:	
3193	CHIP4892	none	0	0	R460037	ardB		
3194	CHIP4893	none	0	0	R460038	mucA		
3195	CHIP4880	none	0	0	R460015	traD		
3196	CHIP4887	none	0	0	R460032	ardA		
3197	CHIP4874	none	0	0	R460009	korA		
3198	CHIP4750	STM/STY	1	0	PSLT010	srgB	sdiA-regulated gene;	
3199	CHIP4826	STM specif	0	0				
3200	CHIP4830	STM specif	0	0				
3201	CHIP4834	STM specif	0	0				
3202	CHIP4838	STM specif	0	0				
3203	CHIP4842	STM specif	1	0	STM0922		Fels-1 prophage; putat	
3204	CHIP4846	STM/STY	1	1	STM3113	nupG	MFS family	STY3268
3205	CHIP4926	STY specif	0	1				STY0311
3206	CHIP4942	STY specif	0	1				STY0350
3207	CHIP4958	STY specif	0	1				STY1018
3208	CHIP4974	STY specif	0	1				STY1045
3209	CHIP4989	STY specif	0	1				STY1061
3210	CHIP5097	STY specif	0	1				STY2036
3211	CHIP4944	STM/STY	0	1				STY0476
3212	CHIP4960	STY specif	0	1				STY1020
3213	CHIP4976	STY specif	0	0				STY1047

3214	CHIP4991	STY specif	0	1		STY1063
3215	CHIP5099	STY specif	0	0		STY2039
3216	CHIP5114	STY specif	0	1		STY2055
3217	CHIP5049	STY specif	0	1		STY1625
3218	CHIP5064	STM/STY	0	1		STY1672
3219	CHIP5080	STY specif	0	0		STY2016
3220	CHIP5093	STY specif	0	1		STY2032
3221	CHIP5116	STY specif	0	1		STY2057
3222	CHIP5132	STY specif	0	1		STY2073
3223	CHIP5066	STY specif	0	1		STY1760
3224	CHIP4995	STY specif	0	1		STY1067
3225	CHIP5103	STY specif	0	1		STY2043
3226	CHIP5118	STY specif	0	1		STY2059
3227	CHIP5224	STY specif	0	1		STY3660
3228	CHIP5239	STY specif	0	1		STY3676
3229	CHIP5386	STY specif	0	1		STY4654
3230	CHIP5396	STY specif	0	1		STY4671
3231	CHIP5412	STY specif	0	1		STY4824
3232	CHIP5427	STY specif	0	1		STY4849
3233	CHIP5280	STM/STY	0	0		
3234	CHIP5301	STY specif	0	1		STY4525
3235	buffer	none	0	0		
3236	empty	none	0	0		
3237	empty	none	0	0		
3238	empty	none	0	0		
3239	empty	none	0	0		
3240	empty	none	0	0		
3241	CHIP0850	STM/STY	1	1	STM1227 pepT	putative pe STY1267
3242	CHIP2665	STM/STY	1	1	STM0126 murD	UDP-N-ac $\epsilon$ STY0146
3243	CHIP2681	STM specif	1	0	STM0159	putative restriction end
3244	CHIP2697	STM/STY	1	1	STM0182 panB	3-methyl-2- STY0200
3245	CHIP2721	STM/STY	1	1	STM0233	putative en STY0257
3246	CHIP2737	STM/STY	1	1	STM1513	putative cy/ STY1548
3247	CHIP2707	STM/STY	1	1	STM0194 fhuB	ABC super STY0221
3248	CHIP3299	STM/STY	1	0	STM0660	putative cy/ STY0705
3249	CHIP3315	STM/STY	1	1	STM0696 ybfF	putative en STY0734
3250	CHIP2572	STM specif	1	0	STM3827 dgoT	MFS family, D-galactor
3251	CHIP2588	STM specif	1	0	STM3846	putative reverse transc
3252	CHIP2604	STM/STY	1	1	STM3879 yieN	paral putati STY3899
3253	CHIP2582	STM/STY	1	0	STM3841	putative inner membra
3254	CHIP2598	STM/STY	1	1	STM3860	putative dir STY3923
3255	CHIP2614	STM/STY	1	1	STM0014	putative tra STY0014
3256	CHIP0847	STM/STY	1	1	STM2399 pgtP	Phosphogl/ STY2637
3257	CHIP0863	STM/STY	1	1	STM0775 galT	galactose- STY0808
3258	CHIP2670	STM/STY	1	1	STM0137 mutT	7,8-dihydro STY0157
3259	CHIP4080	STM/STY	0	0		
3260	CHIP3808	STM/STY	1	1	STM1085 yccA	putative TE STY1112
3261	CHIP2384	STM/STY	1	1	STM3402 yrdC	putative tra STY4395
3262	CHIP2400	STM/STY	1	1	STM3458 yheR	putative N/ STY4340
3263	CHIP2416	STM/STY	1	1	STM3496 yrfG	putative hy STY4300
3264	CHIP3880	STM/STY	1	1	STM1252	putative cy/ STY1869
3265	CHIP2394	STM/STY	1	1	STM3450 yheM	putative ox STY4348

3266	CHIP2410	STM/STY	1	1	STM3487	aroK	shikimate k	STY4309
3267	CHIP3874	STM/STY	1	1	STM1233	ycfC	membrane	STY1273
3268	CHIP3890	STM/STY	1	1	STM1275	yaoF	putative he	STY1843
3269	CHIP4003	STM/STY	1	1	STM2104	cpsG	phosphom:	STY2316
3270	CHIP4019	STM/STY	1	1	STM2133		putative cyf	STY2346
3271	CHIP2444	STM/STY	1	1	STM3537	glgX	glycosyl hy	STY4273
3272	CHIP2460	STM/STY	1	1	STM3574	yhhM	putative inr	STY4237
3273	CHIP4021	STM/STY	1	1	STM2135		putative inr	STY2348
3274	CHIP4037	STM specil	1	0	STM2724		Fels-2 prophage: hypo	
3275	CHIP3765	STM/STY	1	1	STM0296		putative cyf	STY0328
3276	CHIP3781	STM specil	1	0	STM0328		putative permease	
3277	CHIP4015	STM/STY	1	1	STM2124	alkA	3-methyl-a	STY2337
3278	CHIP4031	STM/STY	0	0				
3279	CHIP4055	STM specil	1	0	STM2748		putative transcriptional	
3280	CHIP3783	STM specil	1	0	STM0330		putative 3-isopropylma	
3281	CHIP3799	STM/STY	1	1	STM1064	pqiB	paraquat-ir	STY1085
3282	CHIP2375	STM/STY	1	1	STM1475	rstA	response r	STY1647
3283	CHIP3433	STM/STY	1	1	STM0884		putative inr	STY0917
3284	CHIP3449	STM specil	1	0	STM0905		Fels-1 prophage	
3285	CHIP3465	STM specil	0	0				
3286	CHIP3105	STM/STY	1	1	STM2528		putative dir	STY2773
3287	CHIP3121	STM/STY	1	1	STM2562	yfhA	putative tra	STY2809
3288	CHIP3522	STM specil	1	0	STM1031		Gifsy-2 prophage	
3289	CHIP3491	STM/STY	1	1	STM0970	pflA	pyruvate fo	STY0968
3290	CHIP3507	STM/STY	1	1	STM0995	ycbB	putative pe	STY0997
3291	CHIP4108	STM/STY	1	1	STM4061	yiiP	putative C	STY3810
3292	CHIP3564	STM/STY	1	1	STM4224	yjbG	putative pe	STY4420
3293	CHIP4164	STM/STY	1	0	STM2910		putative cyf	STY3034
3294	CHIP3612	STM/STY	1	1	STM4342	frdB	fumarate r	STY4702
3295	CHIP3470	STM specil	1	0	STM0927		Fels-1 prophage; putat	
3296	CHIP3494	STM/STY	1	1	STM0974	focA	putative F	STY0974
3297	CHIP3510	STM/STY	1	1	STM1005		Gifsy-2 pro	STY1011
3298	CHIP3535	STM/STY	1	1	STM4188	methH	B12-depen	STY4405
3299	CHIP4127	STM specil	1	0	STM4102		putative inner membra	
3300	CHIP3575	STM/STY	1	1	STM4253		putative ou	STY4449
3301	CHIP3673	STM/STY	1	1	STM4467		putative ar	STY4805
3302	CHIP3017	STM/STY	1	1	STM2334	yfbT	putative ph	STY2564
3303	CHIP3033	STM/STY	1	1	STM2361		putative re	STY2591
3304	CHIP2285	STM/STY	1	1	STM1208	ycfN	putative cyf	STY1248
3305	CHIP0226	STM specil	1	0	STM3121		putative transcriptional	
3306	CHIP2333	STM/STY	1	1	STM1165	grxB	glutaredoxi	STY1203
3307	CHIP0252	STM/STY	1	1	STM4159	thiH	deoxyxyluk	STY3726
3308	CHIP2351	STM/STY	1	1	STM1320	ydjN	part of a ki	STY1791
3309	CHIP3620	STM/STY	1	1	STM4356	yjeF	putative su	STY4713
3310	CHIP2964	STM specil	1	0	STM2005		putative endoprotease	
3311	CHIP2980	STM/STY	1	1	STM2261	napF	ferredoxin-	STY2487
3312	CHIP2996	STM/STY	1	1	STM2291	yfaW	paral putati	STY2521
3313	CHIP2966	STM specil	1	0	STM2007		putative TPR repeat pr	
3314	CHIP2982	STM/STY	1	1	STM2263	yojI	putative AE	STY2489
3315	CHIP2998	STM/STY	1	1	STM2294	yfaZ	putative inr	STY2524
3316	CHIP3014	STM/STY	1	1	STM2331	yfbQ	putative ar	STY2561
3317	CHIP3038	STM/STY	1	1	STM2369	usg	putative as	STY2600



3318	CHIP2298	STM/STY	1	1	STM1313	celB	PTS family	STY1800
3319	CHIP0561	STM/STY	1	1	STM1414	ssaV	Secretion	STY1706
3320	CHIP1412	STM/STY	1	1	STM3876	asnC	transcriptio	STY3902
3321	CHIP1340	STM/STY	1	1	STM0302	safD	putative fir	STY0337
3322	CHIP1356	STM/STY	1	1	STM0230	rnhB	RNAse HII	STY0253
3323	CHIP1476	STM/STY	1	1	STM4234	ubiA	p-hydroxyb	STY4430
3324	CHIP1492	STM/STY	1	1	STM2388	yfcX	paral putati	STY2620
3325	CHIP1390	STM/STY	1	1	STM0131	ftsQ	cell divisior	STY0151
3326	CHIP3907	STM/STY	1	1	STM1304	astA	arginine su	STY1810
3327	CHIP3931	STM specil	1	0	STM1353	ydiR	putative electron transf	
3328	CHIP3947	STM/STY	1	1	STM1374	ynhA	putative Su	STY1749
3329	CHIP0540	STM/STY	1	1	STM1574	smvA	Methyl violk	STY1491
3330	CHIP0564	STM/STY	1	1	STM1417	ssaP	Secretion	STY1703
3331	CHIP0566	STM/STY	1	1	STM0400	proY	putative AF	STY0438
3332	CHIP1329	STM/STY	1	1	STM2255	napC	periplasmic	STY2481
3333	CHIP1441	STM/STY	1	1	STM2572	yfhH	putative AE	STY2818
3334	CHIP1369	STM/STY	1	1	STM2070	yeeZ	putative de	STY2279
3335	CHIP1385	STM/STY	1	1	STM0105	yabl	putative De	STY0122
3336	CHIP1409	STM/STY	1	1	STM0144	ppdD	putative m:	STY0166
3337	CHIP1516	STM/STY	1	1	STM2272	gyrA	DNA gyras	STY2499
3338	CHIP1540	STM/STY	1	1	STM2444	cysP	ABC super	STY2681
3339	CHIP1017	STM/STY	1	1	STM0829	glnP	ABC super	STY0867
3340	CHIP1033	STM/STY	1	1	STM2015	erfK	putative pe	STY2218
3341	CHIP1596	STM/STY	1	1	STM0592	fepD	ABC super	STY0636
3342	CHIP3144	STM specil	1	0	STM2600		Gifsy-1 prophage: simi	
3343	CHIP3154	STM specil	1	0	STM2610		Gifsy-1 prophage	
3344	CHIP2030	STM/STY	1	1	STM3749	yicl	putative al:	STY4044
3345	CHIP2046	STM/STY	1	1	STM3630	dppA	ABC super	STY4168
3346	CHIP2062	STM/STY	1	1	STM3557	ugpB	ABC super	STY4254
3347	CHIP2078	STM/STY	1	1	STM0952		putative tra	STY0950
3348	CHIP1535	STM/STY	1	1	STM2519	engA	putative G	STY2764
3349	CHIP1561	STM/STY	1	1	STM0477	acrR	acrAB ope	STY0521
3350	CHIP1585	STM/STY	1	1	STM0514	ybbS	putative tra	STY0562
3351	CHIP1993	STM/STY	1	1	STM4399	ytfE	putative ce	STY4757
3352	CHIP2009	STM/STY	1	1	STM4508	trpS2	putative try	STY4863
3353	CHIP2025	STM/STY	1	1	STM4581	yjjK	putative AE	STY4928
3354	CHIP2041	STM/STY	1	1	STM3659	yiaB	putative inr	STY4139
3355	CHIP3199	STM/STY	1	1	STM3235	yhaJ	putative tra	STY3415
3356	CHIP2075	STM/STY	1	1	STM3483	rpe	D-ribulose-	STY4313
3357	CHIP0585	STM/STY	1	1	STM3835	gyrB	DNA gyras	STY3943
3358	CHIP0697	STM/STY	1	1	STM2077	hisF	imidazole	STY2286
3359	CHIP0625	STM/STY	1	1	STM0413	tsx	nucleoside	STY0451
3360	CHIP0641	STM/STY	1	1	STM1707	pyrF	orotidine-5'	STY1344
3361	CHIP1886	STM/STY	1	1	STM3408	sun	putative rR	STY4389
3362	CHIP0596	STM/STY	1	1	STM3486	aroB	dehydroqui	STY4310
3363	CHIP0708	STM/STY	1	1	STM1960	fliD	flagellar bic	STY2168
3364	CHIP0724	STM/STY	1	1	STM2581	rnc	RNAse III,	STY2827
3365	CHIP0748	STM/STY	1	1	STM2463	eutE	putative alc	STY2700
3366	CHIP1799	STM/STY	1	1	STM3993	mobB	molybdopt	STY3887
3367	CHIP0631	STM/STY	1	1	STM2893	invI	surface pre	STY3016
3368	CHIP0743	STM/STY	1	1	STM1241	msgA	Macrophag	STY1883
3369	CHIP0767	STM/STY	1	1	STM2885	sipB	cell invasio	STY3008

3370	CHIP1826	STM/STY	1	1	STM0870	putative tra	STY0903
3371	CHIP1858	STM/STY	1	1	STM0847 ybiK	putative as	STY0886
3372	CHIP1890	STM/STY	1	1	STM3473 yhfC	putative Mf	STY4323
3373	CHIP0186	STM/STY	1	1	STM2047 pduL	Propanedic	STY2252
3374	CHIP1229	STM/STY	1	1	STM4288 phnB	putative cyf	STY4487
3375	CHIP1245	STM/STY	1	1	STM1899 yebC	putative cyf	STY2107
3376	CHIP1269	STM/STY	1	1	STM3365 yhcQ	putative mε	STY3546
3377	CHIP1293	STM/STY	1	1	STM0043 rpsT	30S riboso	STY0052
3378	CHIP4674	STM/STY	1	1	STM0269	putative cyf	STY0290
3379	CHIP4700	STM/STY	1	1	STM1643	putative inr	STY1426
3380	CHIP0141	STM/STY	1	0	STM4020 yihR	putative alc	STY3858
3381	CHIP0165	STM/STY	1	1	STM0800 slrP	leucine-ricf	STY0833
3382	CHIP0189	STM/STY	1	1	STM2050 pduO	Propanedic	STY2255
3383	CHIP1232	STM/STY	1	1	STM4298 melA	alpha-galac	STY4497
3384	CHIP1248	STM/STY	1	1	STM1906 yecP	putative en	STY2114
3385	CHIP0415	STM/STY	1	1	STM2062 dacD	DD-carbox	STY2268
3386	CHIP0439	STM/STY	1	1	STM4259	putative AE	STY4456
3387	CHIP1290	STM/STY	1	1	STM2686 yfjF	putative cyf	STY2872
3388	CHIP1306	STM/STY	1	1	STM0045 ribF	flavokinase	STY0054
3389	CHIP0104	STM/STY	1	1	STM4451 nrdG	anaerobic i	STY4790
3390	CHIP4703	STM/STY	0	1	STM1528	putative ou	STY1533
3391	CHIP0064	STM/STY	1	1	STM3918 rfe	undecaprei	STY3637
3392	CHIP0026	STM/STY	1	1	STM3961 pldB	lysophosph	STY3598
3393	CHIP1743	STM/STY	1	1	STM2980 ygdE	putative S <sup>A</sup>	STY3120
3394	CHIP0090	STM/STY	1	1	STM4149 rplK	50 S ribosc	STY3736
3395	CHIP0874	STM/STY	1	1	STM1180 flgH	flagellar bic	STY1219
3396	CHIP0890	STM/STY	1	1	STM3476 nirC	FNT family	STY4320
3397	CHIP0900	STM/STY	1	1	STM3360 argR	repressor c	STY3540
3398	CHIP1751	STM/STY	1	1	STM2954 mazG	putative py	STY3083
3399	CHIP1775	STM/STY	1	1	STM4092 hslV	peptidase c	STY3778
3400	CHIP0005	STM/STY	1	1	STM3983 fadB	3-hydroxya	STY3577
3401	CHIP0021	STM/STY	1	1	STM3966	putative arj	STY3593
3402	CHIP0037	STM/STY	1	1	STM3950 yigB	putative hy	STY3609
3403	CHIP0047	STM/STY	1	1	STM3939 cyaA	adenylate c	STY3620
3404	CHIP2290	STM/STY	1	1	STM1266	putative tra	STY1855
3405	CHIP0095	STM/STY	1	1	STM4154 rpoC	RNA polym	STY3731
3406	CHIP0879	STM/STY	1	1	STM1700 fabI	enoyl-[acyl-	STY1352
3407	CHIP0895	STM/STY	1	1	STM1918 cheR	glutamate i	STY2127
3408	CHIP1746	STM/STY	1	1	STM2964 yqcB	putative syf	STY3103
3409	CHIP1125	STM/STY	1	1	STM0886	putative su	STY0919
3410	CHIP4409	STM/STY	1	1	STM0517 gcl	glyoxylate c	STY0565
3411	CHIP1165	STM/STY	1	1	STM0997 ycbL	putative Mε	STY0999
3412	CHIP1189	STM/STY	1	1	STM1579 narW	nitrate red.	STY1486
3413	CHIP4473	STM/STY	1	1	STM0336 stbE	putative fir	STY0369
3414	CHIP2857	STM/STY	1	1	STM1734 yciC	putative inr	STY1317
3415	CHIP2875	STM/STY	1	1	STM1783 pth	peptidyl-tRf	STY1909
3416	CHIP2891	STM/STY	1	1	STM1818 fadD	acyl-CoA s	STY1948
3417	CHIP2907	STM/STY	1	1	STM1848 yebS	putative inr	STY1979
3418	CHIP2923	STM/STY	1	1	STM1877	putative an	STY2083
3419	CHIP4388	STM/STY	1	1	STM0478 aefA	putative sr	STY0522
3420	CHIP1144	STM/STY	1	1	STM0612	putative hy	STY0660
3421	CHIP1146	STM/STY	1	1	STM0625 dpiB	sensory his	STY0674

3422	CHIP1162	STM/STY	1	1	STM0984	msbA	ABC super	STY0985
3423	CHIP4462	STM/STY	1	1	STM0604	ybdM	putative tra	STY0648
3424	CHIP1218	STM/STY	1	1	STM1608	tehB	paral putati	STY1456
3425	CHIP2774	STM specil	1	0	STM1572	nmpC	new outer membrane	STY1459
3426	CHIP2790	STM/STY	1	1	STM1605	ydcN	putative ox	STY1459
3427	CHIP2480	STM/STY	1	1	STM3615	yhjK	putative Di	STY4188
3428	CHIP4616	STM/STY	1	0	STM3130		putative cytoplasmic	STY4097
3429	CHIP2520	STM/STY	1	1	STM3698		putative pe	STY4097
3430	CHIP4656	STM/STY	1	1	STM2849	hycE	hydrogena	STY2971
3431	CHIP4201	STM/STY	1	1	STM2975	fucP	pseudogen	STY3115
3432	CHIP4313	STM/STY	1	1	STM2691		putative AE	STY2877
3433	CHIP4355	STM/STY	1	1	STM0414	yajl	putative ou	STY0452
3434	CHIP4371	STM/STY	1	1	STM0450	lon	DNA-bindir	STY0492
3435	CHIP2467	STM/STY	1	1	STM3584	nikR	nickel-resp	STY4227
3436	CHIP2491	STM/STY	1	0	STM3635	yhjW	putative membrane-as	STY4118
3437	CHIP2507	STM/STY	1	1	STM3678		putative ba	STY4118
3438	CHIP2523	STM/STY	1	1	STM3705	yibP	paral putati	STY4090
3439	CHIP4334	STM/STY	1	1	STM0258	yafD	putative cy	STY0279
3440	CHIP4350	STM/STY	1	1	STM0405	tgt	tRNA-guan	STY0443
3441	CHIP4278	STM/STY	1	1	STM3144	hybF	putative hy	STY3315
3442	CHIP4582	STM/STY	1	1	STM2815	emrB	putative Mf	STY2941
3443	CHIP2486	STM/STY	1	1	STM3625	yhjV	putative Hf	STY4173
3444	CHIP2510	STM/STY	1	1	STM3681		putative tra	STY4115
3445	CHIP2140	STM/STY	1	1	STM3299	greA	transcriptio	STY3477
3446	CHIP2156	STM/STY	1	1	STM3214	yqjH	putative tra	STY3392
3447	CHIP2172	STM/STY	1	1	STM3134		putative pe	STY3305
3448	CHIP1621	STM/STY	1	1	STM2827	alaS	alanyl-tRN	STY2948
3449	CHIP4521	STM/STY	1	1	STM2190	mgIB	ABC super	STY2424
3450	CHIP4537	STM/STY	1	1	STM2225		putative inr	STY2462
3451	CHIP1623	STM/STY	1	1	STM2839	ygaA	putative re	STY2961
3452	CHIP1647	STM/STY	1	1	STM2217	yejB	putative AE	STY2453
3453	CHIP4547	STM specil	1	0	STM2238		putative phage protein	STY2392
3454	CHIP4563	STM/STY	1	1	STM2162	yehW	putative AE	STY2392
3455	CHIP1895	STM/STY	1	1	STM0934	ltaA	L-allo-threc	STY0930
3456	CHIP1911	STM/STY	1	1	STM3430	rplN	50S riboso	STY4368
3457	CHIP1673	STM/STY	1	1	STM2149	stcD	putative ou	STY2378
3458	CHIP4573	STM/STY	1	1	STM2178		putative 1,2	STY2408
3459	CHIP1905	STM/STY	1	1	STM3420	secY	preprotein	STY4378
3460	CHIP2113	STM/STY	1	1	STM3589	pitA	PiT family,	STY4214
3461	CHIP2129	STM/STY	1	1	STM3340	yhcK	putative re	STY3521
3462	CHIP1969	STM/STY	1	1	STM4527	mrr	restriction	STY4885
3463	CHIP1955	STM/STY	1	1	STM4410	ytfN	putative pe	STY4769
3464	CHIP1971	STM/STY	1	1	STM4557	holD	DNA polym	STY4907
3465	CHIP1987	STM/STY	1	1	STM4339	blc	outer mem	STY4699
3466	CHIP0305	STM/STY	1	1	STM4458	yjgF	putative tra	STY4798
3467	CHIP2212	STM/STY	1	1	STM3253		putative fru	STY3435
3468	CHIP0345	STM/STY	1	1	STM0667	ybeX	putative CE	STY0712
3469	CHIP2199	STM/STY	1	1	STM3322	ptsN	sugar spec	STY3501
3470	CHIP2215	STM/STY	1	1	STM3234	yhaH	putative inr	STY3414
3471	CHIP0348	STM/STY	1	1	STM0186	dksA	dnaK supp	STY0211
3472	CHIP0364	STM/STY	1	1	STM1403	sscB	Secretion	STY1717
3473	CHIP0380	STM/STY	1	1	STM3044	xerD	recombina	STY3200

3474	CHIP3355	STM specil	1	0	STM0769		putative cytoplasmic pr
3475	CHIP0359	STM/STY	1	1	STM1398	sseB	Secretion s STY1722
3476	CHIP0375	STM/STY	1	1	STM1090	pipC	Pathogenic STY1120
3477	CHIP3334	STM/STY	1	0	STM0726		putative gly STY0768
3478	CHIP3366	STM/STY	1	1	STM0788	hutG	formimionc STY0821
3479	CHIP3398	STM/STY	1	1	STM0832	ybiF	putative pe STY0871
3480	CHIP2187	STM/STY	1	1	STM3049	yqfA	putative he STY3205
3481	CHIP4192	STM/STY	1	1	STM2955		putative tra STY3093
3482	CHIP4351	STM/STY	1	1	STM0406	yajC	preprotein STY0444
3483	CHIP4384	STM/STY	1	1	STM0473	hha	hemolysin STY0516
3484	CHIP4284	STM/STY	1	1	STM3159	exbB	uptake of e STY3332
3485	CHIP4207	STM/STY	1	1	STM2983	ygdI	putative lip STY3123
3486	CHIP0490	STM/STY	1	1	STM1996	cspB	putative co STY2204
3487	CHIP3588	STM/STY	1	1	STM4285	fdhF	formate de STY4484
3488	CHIP3573	STM/STY	1	1	STM4251	yjbR	putative cy STY4447
3489	CHIP3605	STM/STY	1	1	STM4331	yjel	putative ou STY4691
3490	CHIP4503	STM/STY	1	1	STM1121	ymdF	putative cy STY1156
3491	CHIP1044	STM specil	1	0	STM3720	yibR	putative inner membra
3492	CHIP1005	STM/STY	1	1	STM2299	yfbG	paral putati STY2529
3493	CHIP2564	STM/STY	0	0	STM2252	ccmC	ABC super STY2478
3494	CHIP1206	STM/STY	1	1	STM2732		Fels-2 proç STY4639
3495	CHIP1215	STM/STY	1	1	STM1616		putative Su STY1448
3496	CHIP1160	STM/STY	1	1	STM1526	yneG	putative cy STY1535
3497	CHIP1200	STM/STY	1	1	STM1652	ynaF	putative un STY1416
3498	CHIP1129	STM/STY	1	1	STM1876	holE	DNA polymr STY2082
3499	CHIP1408	STM/STY	1	1	STM0143	hofB	putative int STY0165
3500	CHIP1322	STM/STY	1	1	STM3792		putative L-f STY3990
3501	CHIP1411	STM/STY	1	1	STM3878	yieM	putative inr STY3900
3502	CHIP1460	STM/STY	1	1	STM0417	ribH	riboflavin s STY0456
3503	CHIP4252	STM/STY	1	1	STM3087	yqgB	putative inr STY3241
3504	CHIP3576	STM/STY	1	0	STM4255		putative cytoplasmic pr
3505	CHIP2816	STM/STY	1	1	STM1645	ynbE	putative ou STY1424
3506	CHIP2841	STM/STY	1	1	STM1687	pspD	phage shoç STY1374
3507	CHIP2538	STM/STY	1	0	STM3760		putative cytoplasmic pr
3508	CHIP2903	STM/STY	1	1	STM1840	yobG	putative inr STY1970
3509	CHIP3161	STM specil	1	0	STM2618		Gifsy-1 prophage
3510	CHIP3338	STM/STY	1	1	STM0742	ybgT	putative ou STY0788
3511	CHIP1083	STM specil	1	0	PSLT069	psiB	Plasmid SOS inhibition
3512	CHIP1068	STM specil	0	0	PSLT050		putative cytoplasmic pr
3513	CHIP1108	STM specil	1	0	PSLT099	trbB	conjugative transfer
3514	CHIP1053	STM specil	1	0	PSLT006	repA	DNA replication
3515	CHIP1085	STM specil	1	0	PSLT071		pseudogene; two fram
3516	CHIP1117	STM specil	0	0	PSLT109		pseudogene; two in-fra
3517	CHIP4898	none	0	0	R460049	qacEdelta1	
3518	CHIP4899	none	0	0	R460050	sul1	
3519	CHIP4886	none	0	0	R460031	ccgAI	
3520	CHIP4895	none	0	0	R460040	mpr	
3521	CHIP4881	none	0	0	R460017	traE	
3522	CHIP4751	STM/STY	0	0			
3523	CHIP4827	STM/STY	1	1	STM0907		Fels-1 proç STY1042
3524	CHIP4831	STM specil	1	0	STM0911		Fels-1 prophage
3525	CHIP4835	STM/STY	1	0	STM2779		putative inner membra

3526	CHIP4839	STM/STY	0	0		
3527	CHIP4843	STM/STY	0	0		
3528	CHIP4847	STM/STY	0	0		
3529	CHIP5021	STY specif	0	1		STY1596
3530	CHIP5037	STY specif	0	1		STY1613
3531	CHIP5052	STY specif	0	1		STY1629
3532	CHIP5068	STY specif	0	1		STY1879
3533	CHIP5082	STY specif	0	1		STY2020
3534	CHIP5190	STY specif	0	1		STY3086
3535	CHIP5039	STY specif	0	1		STY1615
3536	CHIP5054	STY specif	0	1		STY1631
3537	CHIP5070	STY specif	0	1		STY1887
3538	CHIP5084	STY specif	0	1		STY2022
3539	CHIP5192	STY specif	0	1		STY3088
3540	CHIP5206	STY specif	0	1		STY3287
3541	CHIP4962	STY specif	0	1		STY1027
3542	CHIP4978	STY specif	0	0		STY1049
3543	CHIP4993	STY specif	0	1		STY1065
3544	CHIP5101	STY specif	0	1		STY2041
3545	CHIP5208	STY specif	0	1		STY3289
3546	CHIP5222	STY specif	0	1		STY3658
3547	CHIP4980	STY specif	0	1		STY1051
3548	CHIP5087	STY specif	0	1		STY2026
3549	CHIP5196	STY specif	0	1		STY3092
3550	CHIP5126	STY specif	0	1		STY2067
3551	CHIP5142	STY specif	0	1		STY2297
3552	CHIP5158	STY specif	0	1		STY2364
3553	CHIP5308	STY specif	0	1		STY4536
3554	CHIP5323	STY specif	0	1		STY4559
3555	CHIP5337	STY specif	0	1		STY4576
3556	CHIP5353	STY specif	0	1		STY4593
3557	CHIP5286	STY specif	0	1		STY4221
3558	CHIP5309	STY specif	0	1		STY4539
3559	buffer	none	0	0		
3560	empty	none	0	0		
3561	empty	none	0	0		
3562	empty	none	0	0		
3563	empty	none	0	0		
3564	empty	none	0	0		
3565	CHIP2641	STM/STY	1	1	STM0072	caiB l-carnitine c STY0082
3566	CHIP3241	STM/STY	1	1	STM3315	yrbH putative po STY3494
3567	CHIP3257	STM/STY	1	1	STM3354	putative tar STY3534
3568	CHIP3273	STM/STY	1	0	STM3388	putative mε STY3568
3569	CHIP3297	STM specif	1	0	STM0658	ybeV putative molecular cha
3570	CHIP3313	STM/STY	1	1	STM0692	putative tra STY0730
3571	CHIP2715	STM/STY	1	1	STM0220	dxr 1-deoxy-D- STY0243
3572	CHIP2731	STM/STY	1	1	STM1505	rspA putative de STY1556
3573	CHIP2747	STM/STY	1	1	STM1536	putative hy STY1527
3574	CHIP0789	STM/STY	1	1	STM4455	treR transcriptio STY4795
3575	CHIP0805	STM/STY	1	0	STM2033	cbiC synthesis c STY2238
3576	CHIP2612	STM/STY	1	1	STM0007	talB transaldola STY0007
3577	CHIP0799	STM/STY	1	1	STM1724	trpD anthranilatε STY1327

3578	CHIP0815	STM/STY	1	1	STM2023	cbiM	synthesis c	STY2226
3579	CHIP0831	STM/STY	1	1	STM1726	trpB	tryptophan	STY1325
3580	CHIP2638	STM specil	1	0	STM0065		putative viral protein	
3581	CHIP2654	STM/STY	1	1	STM0096	hepA	RNA polym	STY0111
3582	CHIP3246	STM/STY	1	1	STM3333		putative pu	STY3513
3583	CHIP3792	STM specil	1	0	STM1050		Gifsy-2 prophage; tail f	
3584	CHIP3816	STM/STY	1	1	STM1096	copR	Copper res	STY1128
3585	CHIP3832	STM/STY	1	1	STM1129		putative inr	STY1166
3586	CHIP3848	STM/STY	1	1	STM1167	rimJ	acetylation	STY1205
3587	CHIP3864	STM/STY	1	1	STM1210	ycfP	putative es	STY1250
3588	CHIP3888	STM/STY	1	1	STM1273		putative nit	STY1848
3589	CHIP3842	STM/STY	1	1	STM1155	htrB	lauroyl/myr	STY1192
3590	CHIP3858	STM/STY	1	1	STM1202	ycfH	putative mε	STY1241
3591	CHIP2434	STM/STY	1	1	STM3526	glpD	sn-glycerol	STY4277
3592	CHIP2450	STM/STY	1	1	STM3551	ggt	gamma-glu	STY4260
3593	CHIP3715	STM/STY	1	1	STM4542	yjjA	putative ou	STY4895
3594	CHIP3731	STM/STY	1	0	STM4584	yjjX	putative cy	STY4931
3595	CHIP3892	STM/STY	1	1	STM1277	yeaO	putative cy	STY1841
3596	CHIP3717	STM/STY	1	1	STM4546	yjjP	paral putati	STY4899
3597	CHIP3733	STM/STY	1	1	STM4586	rob	transcriptio	STY4933
3598	CHIP3749	STM/STY	1	1	STM0274		putative cy	STY0298
3599	CHIP4061	STM specil	1	0	STM2754		putative hexulose 6 ph	
3600	CHIP4077	STM/STY	1	1	STM2775	iroD	Similar to ε	STY2892
3601	CHIP3727	STM specil	1	0	STM4573	stjC	putative fimbrial chapa	
3602	CHIP3751	STM specil	1	0	STM0277		putative cytoplasmic pr	
3603	CHIP3767	STM specil	1	0	STM0299	safA	putative outer membra	
3604	CHIP4079	STM/STY	1	1	STM2777	iroN	TonB-depe	STY2894
3605	CHIP4095	STM/STY	1	0	STM4008		putative cytoplasmic pr	
3606	CHIP3823	STM/STY	1	1	STM1106	hpal	4-hydroxyp	STY1140
3607	CHIP3057	STM/STY	1	1	STM2405		putative thi	STY2646
3608	CHIP3073	STM/STY	1	0	STM2449		putative ac	STY2686
3609	CHIP3089	STM/STY	1	1	STM2490	gcvR	transcriptio	STY2728
3610	CHIP3489	STM/STY	1	1	STM0968	ycaD	putative Mf	STY0966
3611	CHIP3505	STM/STY	1	1	STM0993	mukE	putative ch	STY0995
3612	CHIP4098	STM/STY	0	0				STY3863
3613	CHIP3115	STM/STY	1	1	STM2545		putative rR	STY2791
3614	CHIP3131	STM specil	1	0	STM2587		Gifsy-1 prophage: simi	
3615	CHIP4116	STM/STY	1	1	STM4079	yneC	putative inr	STY3791
3616	CHIP4140	STM/STY	1	1	STM4118	yijP	putative Int	STY3755
3617	CHIP3596	STM/STY	1	1	STM4308		putative co	STY4509
3618	CHIP4188	STM specil	1	0	STM2943		putative cytoplasmic pr	
3619	CHIP3094	STM/STY	1	1	STM2503		putative diç	STY2744
3620	CHIP3118	STM/STY	1	1	STM2558	cadB	APC family	STY2805
3621	CHIP3134	STM specil	0	0				
3622	CHIP4111	STM/STY	1	1	STM4068		putative reç	STY3802
3623	CHIP4135	STM specil	1	0	STM4113	frwB	PTS system fructose-li	
3624	CHIP4151	STM/STY	1	1	STM2857	hypD	putative hy	STY2979
3625	CHIP3681	STM specil	1	0	STM4490		putative Mrr restriction	
3626	CHIP3697	STM/STY	1	1	STM4515	yjiJ	putative su	STY4872
3627	CHIP0194	STM/STY	1	0	STM2055	pduU	Propanedic	STY2260
3628	CHIP2293	STM/STY	1	1	STM1271	yeaR	putative cy	STY1850
3629	CHIP2317	STM/STY	1	1	STM1483	ydgE	putative mε	STY1584

3630	CHIP2341	STM/STY	1	1	STM1234	trmU	tRNA (5-m	STY1274
3631	CHIP2335	STM/STY	1	1	STM1213	ycfQ	putative tra	STY1253
3632	CHIP0276	STM/STY	1	0	STM3478	bigA	putative su	STY4318
3633	CHIP2948	STM/STY	1	1	STM1940		putative ce	STY2149
3634	CHIP3644	STM specil	1	0	STM4417		putative transcriptional	
3635	CHIP3660	STM specil	1	0	STM4434		putative permease	
3636	CHIP3676	STM specil	1	0	STM4484	idnD	L-idonate 5-dehydroge	
3637	CHIP3646	STM specil	1	0	STM4419		sugar (and other) trans	
3638	CHIP3662	STM specil	1	0	STM4436		putative endonuclease	
3639	CHIP3678	STM/STY	1	0	STM4486	yjgB	putative alc	STY4820
3640	CHIP3022	STM/STY	1	1	STM2341		putative tra	STY2571
3641	CHIP0199	STM/STY	1	1	STM1925	flhD	regulator o	STY2134
3642	CHIP2306	STM/STY	1	1	STM1341	btuE	ABC super	STY1769
3643	CHIP3992	STM/STY	1	1	STM2080	udg	UDP-gluco	STY2289
3644	CHIP1420	STM/STY	1	1	STM3836	recF	gap repair	STY3942
3645	CHIP1436	STM/STY	1	1	STM2568	yfhC	putative Cy	STY2814
3646	CHIP1364	STM/STY	1	1	STM0207	pfs	5'-methylth	STY0229
3647	CHIP1388	STM/STY	1	1	STM0127	ftsW	essential c	STY0147
3648	CHIP1404	STM/STY	1	1	STM0108	tbpA	thiamine-bi	STY0125
3649	CHIP1494	STM/STY	1	1	STM2385	yfcB	putative m	STY2617
3650	CHIP3915	STM/STY	1	1	STM1321	ydjM	LexA regul	STY1790
3651	CHIP0508	STM/STY	1	1	STM1978	fliO	flagellar bic	STY2186
3652	CHIP0524	STM/STY	1	1	STM2147	thiM	hydroxyethy	STY2376
3653	CHIP3971	STM/STY	1	1	STM1469	fumC	fumarase (	STY1653
3654	CHIP3995	STM specil	1	0	STM2089	rfbJ	LPS side chain defect:	
3655	CHIP3997	STM/STY	1	1	STM2094	rfbC	dTDP-4,de	STY2304
3656	CHIP1425	STM/STY	1	1	STM3852	yieH	putative ph	STY3931
3657	CHIP1353	STM/STY	1	1	STM0218	pyrH	uridylyate ki	STY0241
3658	CHIP1465	STM/STY	1	1	STM0422	dxs	1-deoxyxyly	STY0461
3659	CHIP1393	STM/STY	1	1	STM0136	secA	preprotein	STY0156
3660	CHIP1505	STM/STY	1	1	STM2320	nuoJ	NADH deh	STY2550
3661	CHIP0977	STM specil	1	0	STM1054		Gifsy-2 prophage	
3662	CHIP1001	STM/STY	0	1	STM1016		Gifsy-2 pro	STY1024
3663	CHIP1564	STM/STY	1	1	STM0502	ybbL	putative AE	STY0548
3664	CHIP1580	STM/STY	1	1	STM0493	fsr	putative M	STY0538
3665	CHIP1988	STM/STY	1	1	STM4341	frdC	fumarate r	STY4701
3666	CHIP3152	STM specil	1	0	STM2608		Gifsy-1 prophage: simi	
3667	CHIP3162	STM/STY	0	1	STM1021		Gifsy-2 pro	STY1035
3668	CHIP3178	STM/STY	1	1	STM3186	tolC	outer mem	STY3364
3669	CHIP3194	STM/STY	1	1	STM3218	oat	putative ac	STY3396
3670	CHIP3210	STM/STY	1	1	STM3261		galactitol-1	STY3444
3671	CHIP1511	STM/STY	1	1	STM2296	ais	aluminum i	STY2526
3672	CHIP1543	STM/STY	1	1	STM2427	lig	DNA ligase	STY2663
3673	CHIP1569	STM/STY	1	1	STM0519	glxR	tartronic se	STY0567
3674	CHIP1046	STM/STY	0	0				STY0033
3675	CHIP3141	STM specil	1	0	STM2597		Gifsy-1 prophage: simi	
3676	CHIP3157	STM specil	0	0	STM2613		Gifsy-1 prophage	
3677	CHIP3173	STM/STY	1	1	STM2652	pssA	phosphatid	STY2845
3678	CHIP3189	STM/STY	1	1	STM3205	bacA	bacitracin r	STY3384
3679	CHIP2059	STM/STY	1	1	STM3586	yhiH	putative AE	STY4224
3680	CHIP3223	STM/STY	1	1	STM3280	deaD	cysteine su	STY3461
3681	CHIP0593	STM/STY	1	1	STM0419	thiL	thiamin-mc	STY0458

3682	CHIP0609	STM/STY	1	1	STM2440	cysM	cysteine sy	STY2677
3683	CHIP0721	STM/STY	1	1	STM0845	moeB	molybdopt	STY0884
3684	CHIP0737	STM/STY	1	1	STM0264	dnaQ	DNA polym	STY0285
3685	CHIP0580	STM/STY	1	1	STM1422	ssaU	Secretion s	STY1698
3686	CHIP0692	STM/STY	1	1	STM2352	hisM	ABC super	STY2582
3687	CHIP0620	STM/STY	1	1	STM0013	dnaJ	heat shock	STY0013
3688	CHIP0636	STM/STY	1	1	STM1737	tonB	energy trar	STY1314
3689	CHIP0756	STM/STY	1	1	STM2455	eutK	putative ca	STY2692
3690	CHIP1807	STM/STY	1	1	STM4078	yneB	putative fru	STY3792
3691	CHIP0727	STM/STY	1	1	STM0066	carA	carbamoyl-	STY0076
3692	CHIP0751	STM/STY	1	1	STM2460	eutH	putative tra	STY2697
3693	CHIP1802	STM/STY	1	1	STM4123	argH	argininosuc	STY3750
3694	CHIP1834	STM/STY	1	1	STM0758	ybgR	putative CI	STY0799
3695	CHIP1866	STM/STY	1	1	STM0746	tolR	tol protein,	STY0792
3696	CHIP0584	STM/STY	1	1	STM2807	nrdE	ribonucleo	STY2932
3697	CHIP0386	STM/STY	1	1	STM1519	marA	transcriptio	STY1541
3698	CHIP0402	STM/STY	1	1	STM2879	sicP	chaparone,	STY3002
3699	CHIP1253	STM/STY	1	1	STM1680	ycjI	putative ca	STY1383
3700	CHIP1277	STM/STY	1	1	STM3378		putative inr	STY3558
3701	CHIP0466	STM/STY	1	1	STM0239	yaeQ	putative cyI	STY0264
3702	CHIP0107	STM/STY	1	1	STM1231	phoP	response r	STY1271
3703	CHIP0125	STM/STY	1	1	STM4168	nfi	endonucle	STY3717
3704	CHIP4724	STM/STY	1	1	STM2375		putative cyI	STY2606
3705	CHIP3628	STM/STY	1	1	STM4377	aidB	putative ac	STY4733
3706	CHIP0389	STM/STY	1	1	STM1393	ssaB	Secretion s	STY1727
3707	CHIP0405	STM/STY	1	1	STM1193	fabH	3-oxoacyl-[	STY1232
3708	CHIP1256	STM/STY	1	1	STM1704	yciT	putative re	STY1347
3709	CHIP1250	STM/STY	1	1	STM1904	yecN	putative inr	STY2112
3710	CHIP0447	STM/STY	0	0				
3711	CHIP0463	STM specil	0	0	STM1008		Gifsy-2 prophage	
3712	CHIP0479	STM/STY	1	1	STM1142	csgD	putative tra	STY1179
3713	CHIP4687	STM/STY	1	1	STM0717		putative inr	STY0757
3714	CHIP0128	STM/STY	1	1	STM4171	yjaH	putative inr	STY3714
3715	CHIP0010	STM/STY	1	1	STM3978	yigC	putative ox	STY3581
3716	CHIP0034	STM/STY	1	1	STM3953	yigF	putative inr	STY3606
3717	CHIP0066	STM/STY	1	1	STM3915	trxA	thioredoxin	STY3639
3718	CHIP2868	STM/STY	1	1	STM1764	narG	nitrate redt	STY1288
3719	CHIP1709	STM/STY	1	1	STM1822	yoaB	putative tra	STY1952
3720	CHIP1725	STM/STY	1	1	STM1738	ycil	putative cyI	STY1313
3721	CHIP1735	STM/STY	1	1	STM3010	aas	bifunctiona	STY3153
3722	CHIP1759	STM/STY	1	1	STM2897	invE	invasion pr	STY3020
3723	CHIP0948	STM/STY	1	1	STM2699		Fels-2 pro	STY4605
3724	CHIP0185	STM/STY	1	1	STM2046	pduK	Propanedic	STY2251
3725	CHIP0539	STM/STY	1	1	STM1576	narU	MFS super	STY1489
3726	CHIP0045	STM/STY	1	1	STM3941		putative inr	STY3618
3727	CHIP0055	STM/STY	1	1	STM3927		putative inr	STY3628
3728	CHIP0079	STM/STY	1	1	STM3900	ilvL	ilvGEDA o	STY3656A
3729	CHIP3133	STM specil	0	0	STM2589		Gifsy-1 prophage: simi	
3730	CHIP1714	STM/STY	1	1	STM1807	dsbB	putative di	STY1936
3731	CHIP1730	STM/STY	1	1	STM1715	yciN	putative cyI	STY1335
3732	CHIP1754	STM/STY	1	1	STM2934	cysN	ATP-sulfur	STY3059
3733	CHIP1133	STM/STY	1	1	STM1880	yebE	putative inr	STY2086



3734	CHIP1149	STM/STY	1	1	STM0617	rna	RNase I, cl	STY0666
3735	CHIP1173	STM/STY	1	1	STM1545		putative m	STY1517
3736	CHIP4457	STM/STY	1	1	STM0598	entA	2,3-dihydr	STY0642
3737	CHIP1213	STM/STY	1	1	STM1612		putative ce	STY1452
3738	CHIP2761	STM specil	1	0	STM1555		putative transcriptional	
3739	CHIP2779	STM/STY	1	1	STM1587	yncD	paral putati	STY1478
3740	CHIP2795	STM/STY	1	1	STM1615		putative nu	STY1449
3741	CHIP2811	STM/STY	1	1	STM1634		putative an	STY1437
3742	CHIP2931	STM/STY	1	1	STM1892	znuC	ABC super	STY2100
3743	CHIP1128	STM/STY	1	1	STM0892	ybjP	putative lip	STY0925
3744	CHIP4412	STM/STY	1	1	STM0522	allP	putative NC	STY0569
3745	CHIP4414	STM/STY	1	1	STM0523	allB	allantoinas	STY0571
3746	CHIP1178	STM/STY	1	1	STM0961	lolA	periplasmic	STY0959
3747	CHIP1202	STM/STY	1	1	STM1640	ydcF	putative inr	STY1429
3748	CHIP2862	STM/STY	1	0	STM1747		putative inner membra	
3749	CHIP2878	STM/STY	1	1	STM1792		putative cy	STY1919
3750	CHIP2894	STM/STY	1	1	STM1828	yoaE	putative inr	STY1958
3751	CHIP4600	STM/STY	1	1	STM3074		putative AE	STY3232
3752	CHIP2504	STM/STY	1	1	STM3672	yiaN	putative D	STY4126
3753	CHIP4640	STM specil	1	0	STM1553		pseudogene; frameshil	
3754	CHIP2552	STM/STY	1	1	STM3799		putative pe	STY3980
3755	CHIP4209	STM/STY	1	1	STM2986		putative int	STY3126
3756	CHIP4241	STM/STY	1	1	STM3065	yggE	putative pe	STY3221
3757	CHIP4267	STM specil	1	0	STM3120		putative transcriptional	
3758	CHIP4283	STM/STY	1	0	STM3154		putative ATP-depende	
3759	CHIP4587	STM/STY	1	1	STM2840		putative fla	STY2962
3760	CHIP4611	STM/STY	1	1	STM3086	speA	arginine de	STY3240
3761	CHIP4627	STM specil	1	0	STM4186		putative cytoplasmic pr	
3762	CHIP4643	STM/STY	1	1	STM3654		pseudogen	STY4146
3763	CHIP4246	STM specil	1	0	STM3080		putative mannitol dehy	
3764	CHIP4262	STM/STY	0	0				
3765	CHIP4374	STM/STY	1	1	STM0455	ybaX	putative (al	STY0497
3766	CHIP2470	STM/STY	1	1	STM3590	uspB	universal s	STY4213
3767	CHIP4614	STM/STY	1	1	STM3108	yggL	putative cy	STY3263
3768	CHIP4630	STM/STY	0	0				
3769	CHIP1956	STM/STY	1	1	STM4438	pmbA	putative pe	STY4777
3770	CHIP1972	STM/STY	1	1	STM4561	osmY	hyperosmo	STY4911
3771	CHIP1605	STM/STY	1	1	STM2812		putative inr	STY2938
3772	CHIP1629	STM/STY	1	1	STM2128	yegO	putative re	STY2341
3773	CHIP1645	STM/STY	1	1	STM2215	rtn	putative m	STY2451
3774	CHIP1661	STM/STY	1	1	STM2099	wcaM	putative co	STY2309
3775	CHIP1631	STM/STY	1	1	STM2131	baeR	response r	STY2344
3776	CHIP4531	STM/STY	1	1	STM2203	nfo	endonucle	STY2438
3777	CHIP1671	STM/STY	1	1	STM2122	udk	uridine/cyti	STY2335
3778	CHIP1687	STM/STY	1	1	STM1846	proQ	activator of	STY1977
3779	CHIP2087	STM/STY	1	1	STM3695	yibK	putative tR	STY4101
3780	CHIP2103	STM/STY	1	1	STM3645	yiaD	putative ou	STY4157
3781	CHIP1681	STM/STY	1	1	STM2192	yeiB	putative inr	STY2426
3782	CHIP1697	STM/STY	1	1	STM1775	hemK	putative pr	STY1900
3783	CHIP2097	STM/STY	1	1	STM3670		putative ch	STY4128
3784	CHIP1929	STM/STY	0	0	STM1869A		putative protein	
3785	CHIP1945	STM/STY	1	1	STM4375	yjFM	putative inr	STY4731

3786	CHIP2161	STM/STY	1	1	STM3183	icc	cyclic 3',5'-	STY3361
3787	CHIP2147	STM/STY	1	1	STM3273	yhbT	putative lipi	STY3456
3788	CHIP2163	STM/STY	1	1	STM3158	exbD	uptake of e	STY3331
3789	CHIP2179	STM/STY	1	1	STM3067	yggB	putative mε	STY3223
3790	CHIP2196	STM/STY	1	1	STM3325	yrbL	putative cyf	STY3504
3791	CHIP0329	STM/STY	1	1	STM3759	marT	putative tra	STY4027
3792	CHIP2236	STM/STY	1	1	STM3164	yqhD	putative alc	STY3337
3793	CHIP0316	STM/STY	1	1	STM1660	fnr	transcriptio	STY1404
3794	CHIP0332	STM/STY	1	1	STM3763	mgtB	Mg2+ trans	STY4023
3795	CHIP2239	STM/STY	1	1	STM3156		putative cyf	STY3329
3796	CHIP2255	STM/STY	1	1	STM3077	yggG	putative Zn	STY3237
3797	CHIP2271	STM/STY	1	1	STM1083	yccX	putative ph	STY1110
3798	CHIP3363	STM/STY	1	1	STM0785	ybhE	putative 3-α	STY0818
3799	CHIP2250	STM/STY	1	1	STM3097	yqgF	putative en	STY3250
3800	CHIP2266	STM/STY	1	1	STM1063	pqiA	paraquat-ir	STY1084
3801	CHIP3342	STM/STY	1	1	STM0748	tolB	tol protein	STY0794
3802	CHIP3374	STM/STY	1	1	STM0795	bioF	7-keto-8-ar	STY0828
3803	CHIP3406	STM/STY	1	1	STM0842	ybiV(1)	putative hy	STY0881
3804	CHIP0304	STM/STY	1	1	STM1599	pdgL	Periplasmic	STY1465
3805	CHIP4366	STM/STY	1	1	STM0440	cyoD	cytochromε	STY0482
3806	CHIP4233	STM/STY	1	1	STM3034		putative cyf	STY3183
3807	CHIP4259	STM/STY	1	1	STM3102	yggU	putative cyf	STY3255
3808	CHIP4393	STM/STY	1	1	STM0485	ybaB	putative cyf	STY0529
3809	CHIP4449	STM/STY	1	1	STM0587	ybdZ	putative cyf	STY0630
3810	CHIP1536	STM/STY	1	1	STM2498	upp	uracil phos	STY2739
3811	CHIP3525	STM specil	1	0	STM1034		Gifsy-2 prophage; puta	
3812	CHIP4557	STM/STY	1	1	STM2148		putative pe	STY2377
3813	CHIP4487	STM/STY	1	1	STM0355		putative Cc	STY0385
3814	CHIP1020	STM/STY	1	1	STM0411	yajD	putative cyf	STY0449
3815	CHIP2036	STM/STY	1	1	STM3702	grxC	glutaredoxi	STY4093
3816	CHIP1990	STM/STY	1	1	STM4379	yjfO	putative lip	STY4735
3817	CHIP4150	STM/STY	1	1	STM2856	hypC	putative hy	STY2978
3818	CHIP2326	STM/STY	1	1	STM1118	yccJ	putative cyf	STY1154
3819	CHIP2343	STM/STY	1	1	STM1249		putative pe	STY1875
3820	CHIP2299	STM/STY	1	1	STM1314	celC	PTS family	STY1799
3821	CHIP2544	STM/STY	1	1	STM3772		putative ph	STY4013
3822	CHIP2545	STM/STY	1	1	STM3773		putative Nt	STY4012
3823	CHIP2632	STM/STY	1	0	STM0056		putative ox	STY0065
3824	CHIP2617	STM/STY	1	1	STM0018		putative ex	STY0018
3825	CHIP2633	STM/STY	1	1	STM0057		putative cit	STY0066
3826	CHIP2618	STM/STY	1	0	STM0019		putative hy	STY0019
3827	CHIP2620	STM/STY	1	1	STM0029		putative tra	STY0035
3828	CHIP2652	STM/STY	1	1	STM0093	imp	Organic so	STY0108
3829	CHIP1004	STM/STY	1	1	STM1146	ymdA	putative pe	STY1183
3830	CHIP2794	STM/STY	1	1	STM1613		putative PT	STY1451
3831	CHIP2827	STM/STY	1	1	STM1662	ynaJ	putative inr	STY1402
3832	CHIP2788	STM/STY	1	1	STM1603	yncJ	putative pe	STY1461
3833	CHIP2758	STM specil	1	0	STM1551		putative cytoplasmic pr	
3834	CHIP3200	STM/STY	1	1	STM3237	yhaL	putative cyf	STY3417
3835	CHIP1091	STM specil	1	0	PSLT082	traP	conjugative transfer	
3836	CHIP1084	STM specil	1	0	PSLT070	psiA	Plasmid SOS inhibition	
3837	CHIP1116	STM specil	0	0				

3838	CHIP1061	STM specif	1	0	PSLT031	rsdB	resolvase
3839	CHIP1093	STM specif	1	0	PSLT084	traV	conjugative transfer: as
3840	CHIP0655	STM specif	1	0	PSLT035		putative transposase
3841	CHIP4905	none	0	0	R460058	arsR	
3842	CHIP4906	none	0	0	R460059	arsD	
3843	CHIP4894	none	0	0	R460039	mucB	
3844	CHIP4900	none	0	0	R460053		
3845	CHIP4888	none	0	0	R460033	ccgC	
3846	CHIP4752	STM specif	1	0	PSLT023	repA2	DNA replication
3847	CHIP4828	STM/STY	1	1	STM2714		Fels-2 prophage STY4618
3848	CHIP4832	STM/STY	0	0			
3849	CHIP4836	STM specif	0	0			
3850	CHIP4840	STM specif	0	0			
3851	CHIP4844	STM specif	1	0	STM0923		Fels-1 prophage; putat
3852	CHIP4848	STM/STY	1	1	STM3114	speC	ornithine decarboxylase STY3270
3853	CHIP4934	STY specif	0	1			STY0327
3854	CHIP4950	STM/STY	0	1			STY0746
3855	CHIP4966	STY specif	0	1			STY1031
3856	CHIP4982	STY specif	0	0			STY1053
3857	CHIP4997	STY specif	0	1			STY1069
3858	CHIP5105	STY specif	0	1			STY2045
3859	CHIP4952	STY specif	0	1			STY0945
3860	CHIP4968	STY specif	0	1			STY1033
3861	CHIP4983	STY specif	0	1			STY1055
3862	CHIP4999	STY specif	0	0			STY1071
3863	CHIP5107	STY specif	0	1			STY2047
3864	CHIP5122	STY specif	0	1			STY2063
3865	CHIP5056	STY specif	0	1			STY1633
3866	CHIP5072	STY specif	0	1			STY1890
3867	CHIP5085	STY specif	0	1			STY2024
3868	CHIP5194	STY specif	0	1			STY3090
3869	CHIP5124	STY specif	0	1			STY2065
3870	CHIP5140	STM/STY	0	1			STY2209
3871	CHIP5074	STY specif	0	1			STY2003
3872	CHIP5003	STM/STY	0	0			
3873	CHIP5110	STY specif	0	1			STY2051
3874	CHIP5216	STM/STY	0	0			STY3533
3875	CHIP5232	STM/STY	0	1			STY3668
3876	CHIP5246	STY specif	0	1			STY3684
3877	CHIP5389	STY specif	0	1			STY4663
3878	CHIP5404	STY specif	0	1			STY4680
3879	CHIP5420	STY specif	0	1			STY4832
3880	CHIP5435	STM/STY	0	1			STY4881
3881	CHIP5374	STY specif	0	1			STY4632
3882	CHIP5390	STY specif	0	1			STY4664
3883	buffer	none	0	0			
3884	empty	none	0	0			
3885	empty	none	0	0			
3886	empty	none	0	0			
3887	empty	none	0	0			
3888	empty	none	0	0			
3889	CHIP2745	STM specif	1	0	STM1531		putative hydrogenase

3890	CHIP2570	STM/STY	1	1	STM3823	torC	trimethylar	STY3955
3891	CHIP0803	STM/STY	1	1	STM0434	apbA	ketopantoa	STY0473
3892	CHIP0819	STM/STY	1	1	STM2019	cbiP	synthesis c	STY2222
3893	CHIP2626	STM/STY	1	1	STM0039	nhaA	NhaA famil	STY0047
3894	CHIP2642	STM/STY	1	1	STM0075	fixA	putative fla	STY0085
3895	CHIP0837	STM/STY	1	1	STM4050	rhaT	DMT Supe	STY3823
3896	CHIP0853	STM/STY	1	1	STM3173	plsC	1-acyl-sn-g	STY3350
3897	CHIP3244	STM/STY	1	1	STM3327	yhbL	sigma cros	STY3506
3898	CHIP3260	STM/STY	1	1	STM3366	yhcR	putative inr	STY3546a
3899	CHIP3276	STM/STY	1	1	STM3391	acrF	RND family	STY3570
3900	CHIP3292	STM/STY	1	1	STM0653	ybeL	putative cyI	STY0704
3901	CHIP2678	STM/STY	1	1	STM0154	lpdA	lipoamide c	STY0177
3902	CHIP2694	STM/STY	1	0	STM0178	yadI	putative PT	STY0196
3903	CHIP2710	STM/STY	1	1	STM0210	yaeG	putative inr	STY0232
3904	CHIP2726	STM/STY	1	1	STM0241	cutF	pseudogen	STY0266
3905	CHIP2742	STM specil	1	0	STM1525	yneH	putative glutaminase	
3906	CHIP0776	STM specil	1	0	STM3636	lpfE	long polar fimbrial minc	
3907	CHIP2448	STM/STY	1	1	STM3543	gntR	transcriptio	STY4268
3908	CHIP3713	STM specil	1	0	STM4539		putative glucosamine-f	
3909	CHIP3737	STM/STY	1	1	STM4592	sthD	putative firr	STY4940
3910	CHIP4049	STM specil	1	0	STM2742		putative cytoplasmic pr	
3911	CHIP3777	STM specil	0	0	STM0325		putative IS3 transposa:	
3912	CHIP3793	STM specil	1	0	STM1052		pseudogene; in-frame	
3913	CHIP4027	STM/STY	1	1	STM2708		Fels-2 prop	STY4613
3914	CHIP4043	STM specil	1	0	STM2734		Fels-2 prophage: hypo	
3915	CHIP3771	STM/STY	1	1	STM0311	yafJ	putative glt	STY0356
3916	CHIP4083	STM/STY	1	1	STM2783	nxiA	putative nic	STY2901
3917	CHIP3819	STM/STY	1	1	STM1101	hpaG	4-hydroxyp	STY1134
3918	CHIP3835	STM/STY	1	1	STM1135	ycdW	paral putati	STY1172
3919	CHIP3789	STM specil	0	0				
3920	CHIP3813	STM/STY	1	1	STM1092	orfX	putative cyI	STY1124
3921	CHIP3829	STM/STY	1	1	STM1126	phoH	PhoB-depe	STY1162
3922	CHIP3845	STM/STY	1	1	STM1158		putative inr	STY1195
3923	CHIP3861	STM/STY	1	1	STM1206	ycfL	putative ou	STY1246
3924	CHIP2437	STM specil	1	0	STM3529		putative glycerol dehyd	
3925	CHIP2383	STM/STY	1	1	STM3401	aroE	dehydroshi	STY4396
3926	CHIP3847	STM/STY	1	1	STM1164	yceB	putative ou	STY1202
3927	CHIP2423	STM/STY	1	1	STM3506	feoB	FeoB famil	STY4290
3928	CHIP2439	STM specil	1	0	STM3530		pseudogene; frameshil	
3929	CHIP2463	STM/STY	1	1	STM3579	yhhQ	putative int	STY4232
3930	CHIP4112	STM/STY	1	1	STM4073	ydeW	putative tra	STY3797
3931	CHIP3530	STM specil	1	0	STM1039		Gifsy-2 prophage; prot	
3932	CHIP3546	STM specil	1	0	STM4204		putative inner membra	
3933	CHIP3570	STM/STY	1	1	STM4246	dnaB	putative reI	STY4442
3934	CHIP3586	STM/STY	1	1	STM4283	gltP	DAACS far	STY4482
3935	CHIP4178	STM/STY	1	1	STM2929	ispF	2C-methyl-	STY3054
3936	CHIP3426	STM/STY	1	1	STM0871	ybjM	putative inr	STY0904
3937	CHIP3044	STM/STY	1	1	STM2379		putative pe	STY2610
3938	CHIP3452	STM specil	1	0	STM0909		Fels-1 prophage	
3939	CHIP3468	STM specil	0	0	STM0925		Fels-1 prophage; putat	
3940	CHIP3108	STM/STY	1	1	STM2532		putative inr	STY2778
3941	CHIP3533	STM/STY	1	1	STM4184	aceA	isocitrate ly	STY4402

3942	CHIP3549	STM specil	1	0	STM4207		putative phage basepla
3943	CHIP3583	STM/STY	1	1	STM4278	nrfB	formate-de STY4476
3944	CHIP3599	STM/STY	1	1	STM4315		putative Ar: STY4515
3945	CHIP3615	STM/STY	1	1	STM4347	yjeP	putative pe STY4707
3946	CHIP3055	STM/STY	1	1	STM2401	ddg	cold shock: STY2639
3947	CHIP3071	STM/STY	1	1	STM2446		putative iro STY2683
3948	CHIP3087	STM/STY	1	1	STM2488	nlpB	lipoprotein- STY2726
3949	CHIP0266	STM/STY	1	1	STM1295	sppA	protease I\ STY1819
3950	CHIP0282	STM/STY	1	1	STM0024	bcfD	fimbrial sut STY0029
3951	CHIP3626	STM/STY	1	1	STM4374	yjfL	putative inr STY4730
3952	CHIP3642	STM/STY	1	1	STM4411	ytfP	putative cyf STY4770
3953	CHIP2986	STM/STY	1	1	STM2273		putative de STY2500
3954	CHIP3010	STM/STY	1	1	STM2319	nuoK	NADH deh: STY2549
3955	CHIP3004	STM/STY	1	1	STM2311	elaB	putative inr STY2542
3956	CHIP3020	STM/STY	1	1	STM2339	yfcC	putative int STY2569
3957	CHIP0197	STM/STY	1	1	STM2058	pduX	Propanedic STY2263
3958	CHIP0213	STM/STY	1	1	STM3242	tdcD	propionate STY3424
3959	CHIP0229	STM specil	1	0	STM0197	stfD	putative periplasmic fin
3960	CHIP2328	STM/STY	1	1	STM1149	mdoC	membrane STY1186
3961	CHIP0231	STM specil	1	0	STM0199	stfF	putative minor fimbrial
3962	CHIP0247	STM/STY	1	1	STM0367	prpR	regulator fc STY0399
3963	CHIP2346	STM/STY	1	1	STM1284	yeaH	putative cyf STY1832
3964	CHIP2362	STM/STY	1	1	STM1428	ydhC	putative Mf STY1694
3965	CHIP3631	STM/STY	1	1	STM4383	sgaT	putative PT STY4739
3966	CHIP3647	STM specil	1	0	STM4420		putative inner membra
3967	CHIP1500	STM/STY	1	1	STM2356	ubiX	3-octapren: STY2586
3968	CHIP3921	STM/STY	1	1	STM1337	pheS	phenylalan STY1773
3969	CHIP3945	STM/STY	1	1	STM1372	sufD	required fo STY1751
3970	CHIP0538	STM/STY	1	1	STM4560	prfC	peptide chz STY4910
3971	CHIP3985	STM/STY	1	1	STM1494		ABC-type t STY1570
3972	CHIP1317	STM/STY	1	1	STM3776	yicM	putative Mf STY4008
3973	CHIP0572	STM/STY	1	1	STM4230	malkK	bifunctiona STY4426
3974	CHIP1423	STM/STY	1	1	STM3882	rbsA	ABC super STY3896
3975	CHIP1359	STM/STY	1	1	STM0248	yaeD	putative de STY0275
3976	CHIP1375	STM/STY	1	1	STM1991	vsr	DNA mism STY2199
3977	CHIP1487	STM/STY	1	1	STM4241	zur	transcriptio STY4437
3978	CHIP3908	STM/STY	1	0	STM1305	astD	succinylglu STY1809
3979	CHIP3910	STM/STY	1	1	STM1308	spy	periplasmic STY1805
3980	CHIP3934	STM specil	1	0	STM1356	ydiO	putative acyl-CoA dehy
3981	CHIP3958	STM/STY	1	1	STM1442	ydhJ	putative mt STY1680
3982	CHIP0551	STM/STY	1	1	STM1176	flgD	flagellar bic STY1215
3983	CHIP3998	STM/STY	1	1	STM2095	rfbA	dTDP-gluc STY2305
3984	CHIP1338	STM/STY	1	1	STM0319	crI	transcriptio STY0364
3985	CHIP2012	STM/STY	1	1	STM4513	yjiG	putative pe STY4869
3986	CHIP2028	STM/STY	1	1	STM4596		putative inr STY4945
3987	CHIP2052	STM/STY	1	1	STM3617	bcsC	endo-1,4-D STY4183
3988	CHIP3216	STM/STY	1	1	STM3270	yhbP	putative cyf STY3453
3989	CHIP1509	STM/STY	1	1	STM2306	menC	o-succinylb STY2536
3990	CHIP1525	STM/STY	1	1	STM2286	glpC	sn-glycerol STY2515
3991	CHIP1551	STM/STY	1	1	STM2491	bcp	thiol peroxi STY2729
3992	CHIP1583	STM/STY	1	1	STM0505	ybbO	putative ox STY0551
3993	CHIP3139	STM specil	1	0	STM2595		Gifsy-1 prophage: simi

3994	CHIP3155	STM specil	1	0	STM2611	Gifsy-1 prophage
3995	CHIP2031	STM/STY	1	1	STM3746	gltS GltS family STY4047
3996	CHIP2047	STM/STY	1	1	STM3629	dppB ABC super STY4169
3997	CHIP2049	STM/STY	1	1	STM3626	dppF ABC super STY4172
3998	CHIP2065	STM/STY	1	1	STM3545	yhhX putative ox STY4266
3999	CHIP0975	STM specil	1	0	STM1042	Gifsy-2 prophage; prot
4000	CHIP0999	STM/STY	0	1	STM1014	Gifsy-2 pro STY1022
4001	CHIP1023	STM/STY	1	1	STM4470	yjgD putative cyf STY4808
4002	CHIP1039	STM/STY	1	1	STM2945	sopD secreted pi STY3073
4003	CHIP0649	STM/STY	1	1	STM4460	pyrB aspartate c STY4800
4004	CHIP1804	STM/STY	1	1	STM4101	metL aspartokin $\alpha$ STY3768
4005	CHIP1836	STM/STY	1	1	STM0706	kdpA P-type ATF STY0747
4006	CHIP1876	STM/STY	1	1	STM0713	ybgK putative ca STY0753
4007	CHIP0586	STM/STY	1	1	STM0544	fimI fimbrial prc STY0590
4008	CHIP0602	STM/STY	1	1	STM2565	purG phosphorib STY2812
4009	CHIP1815	STM/STY	1	1	STM4049	rhaR positive re $\gamma$ STY3824
4010	CHIP1847	STM/STY	0	0		STY0696
4011	CHIP1879	STM/STY	1	1	STM0268	putative cyf STY0289
4012	CHIP0589	STM/STY	1	1	STM2559	cadA lysine deca STY2806
4013	CHIP0613	STM/STY	1	1	STM3502	ompR response r $\alpha$ STY4294
4014	CHIP0629	STM/STY	1	1	STM1695	sapD ABC super STY1356
4015	CHIP0680	STM/STY	1	1	STM0110	leuD 3-isopropyl STY0129
4016	CHIP0608	STM/STY	1	1	STM1749	adhE iron-depen STY1302
4017	CHIP0632	STM/STY	1	1	STM2892	invJ surface pre STY3015
4018	CHIP0752	STM/STY	1	1	STM2459	eutA CPPZ-55 p STY2696
4019	CHIP1819	STM/STY	1	1	STM4029	yiiD putative ac STY3849
4020	CHIP1851	STM/STY	1	1	STM0634	ybeF putative tra STY0684
4021	CHIP0123	STM/STY	1	1	STM4165	rsd regulator o $\alpha$ STY3720
4022	CHIP0139	STM/STY	1	1	STM4022	yihT putative alc STY3856
4023	CHIP4738	STM/STY	1	1	STM4002	putative cyf STY3879
4024	CHIP0387	STM/STY	1	1	STM1518	marB multiple an STY1542
4025	CHIP0403	STM/STY	1	1	STM1191	rpmF 50S riboso STY1230
4026	CHIP1254	STM/STY	1	1	STM1682	tpx thiol peroxi STY1381
4027	CHIP0429	STM/STY	1	1	STM2501	ppk polyphosph $\alpha$ STY2742
4028	CHIP1280	STM/STY	1	1	STM3362	putative pe STY3543
4029	CHIP0469	STM/STY	1	1	STM3719	rfaB UDP-D-gal STY4076
4030	CHIP4677	STM/STY	1	0	STM0305	putative cyf STY0342
4031	CHIP0118	STM/STY	1	1	STM4160	thiG deoxyxyluk STY3725
4032	CHIP4717	STM/STY	1	1	STM3774	putative inr STY4010
4033	CHIP4711	STM/STY	1	1	STM1948	putative inr STY2156
4034	CHIP0152	STM/STY	1	1	STM3870	atpE membrane STY3908
4035	CHIP0176	STM/STY	1	1	STM2037	pduF Propanedic STY2242
4036	CHIP1227	STM/STY	1	1	STM4294	yjdE putative AF STY4493
4037	CHIP1243	STM/STY	1	1	STM1911	putative cyf STY2120
4038	CHIP1267	STM/STY	1	1	STM1712	acnA aconitate h STY1339
4039	CHIP0898	STM/STY	1	1	STM2670	aroF 3-deoxy-D- STY2857
4040	CHIP1749	STM/STY	1	1	STM2960	gudD d-glucarate STY3098
4041	CHIP0938	STM/STY	1	1	STM0428	phnT 2-aminoeth STY0467
4042	CHIP0011	STM/STY	1	1	STM3977	rfaH transcriptio STY3582
4043	CHIP0035	STM/STY	1	1	STM3952	corA MIT family, STY3607
4044	CHIP0059	STM/STY	1	0	STM3923	rffH glucose-1-phosphate tl
4045	CHIP1136	STM/STY	1	1	STM1885	edd 6-phospho $\alpha$ STY2093

4046	CHIP0069	STM/STY	1	1	STM3912	rep	rep helicase	STY3642
4047	CHIP2658	STM/STY	1	1	STM0107	yabK	putative bir	STY0124
4048	CHIP1704	STM/STY	1	1	STM1748	yehE	putative int	STY1303
4049	CHIP1720	STM/STY	1	1	STM1788		putative Ni	STY1915
4050	CHIP1736	STM/STY	1	1	STM3001	thyA	thymidylate	STY3142
4051	CHIP0927	STM/STY	1	1	STM1743	oppD	ABC super	STY1308
4052	CHIP1786	STM/STY	1	1	STM4042		putative br	STY3833
4053	CHIP0032	STM/STY	1	1	STM3955	rarD	chloramph	STY3604
4054	CHIP0072	STM/STY	1	1	STM3907		putative cy	STY3650
4055	CHIP3145	STM specil	1	0	STM2601		Gifsy-1 prophage: simi	
4056	CHIP1715	STM/STY	1	1	STM1804	ycgB	putative cy	STY1933
4057	CHIP2865	STM/STY	1	1	STM1756	purU	formyltetra	STY1294
4058	CHIP2785	STM/STY	1	1	STM1597	ydcW	putative alc	STY1467
4059	CHIP2905	STM/STY	1	1	STM1845	prc	carboxy-ter	STY1976
4060	CHIP2929	STM/STY	1	1	STM1890	yebA	putative Pe	STY2098
4061	CHIP4402	STM/STY	1	1	STM0504	ybbN	paral putati	STY0550
4062	CHIP4418	STM/STY	1	1	STM0527	allC	allantoate ε	STY0575
4063	CHIP4420	STM/STY	1	1	STM0531	yibF	putative cy	STY0579
4064	CHIP4444	STM/STY	1	1	STM0579	ybdF	putative cy	STY0621
4065	CHIP4468	STM/STY	1	1	STM0616	rnk	regulator o	STY0664
4066	CHIP2756	STM/STY	1	0	STM1549		putative translation initi	
4067	CHIP2876	STM/STY	1	1	STM1785		putative cy	STY1911
4068	CHIP2796	STM/STY	1	1	STM1617		putative rib	STY1447
4069	CHIP2798	STM/STY	1	1	STM1620		putative ox	STY1444
4070	CHIP2822	STM/STY	0	0				STY1415
4071	CHIP2838	STM/STY	1	1	STM1681	ycjG	putative ch	STY1382
4072	CHIP4399	STM/STY	1	1	STM0498	ybaR	putative co	STY0544
4073	CHIP1155	STM/STY	1	1	STM1522	ydeA	MFS family	STY1538
4074	CHIP1171	STM/STY	1	1	STM1560		putative al	STY1503
4075	CHIP4249	STM specil	1	0	STM3083		putative Mannitol dehy	
4076	CHIP4361	STM/STY	1	1	STM0435	yajQ	putative cy	STY0474
4077	CHIP2465	STM/STY	1	1	STM3582	yhhT	putative Pe	STY4229
4078	CHIP4601	STM/STY	0	0				STY3834
4079	CHIP2505	STM/STY	1	1	STM3673	yiaO	putative dic	STY4123
4080	CHIP2529	STM/STY	1	1	STM3732	ttk	putative tra	STY4062
4081	CHIP2531	STM/STY	1	1	STM3739	yicF	putative D	STY4054
4082	CHIP4204	STM/STY	1	1	STM2977	fucK	L-fuculokin	STY3117
4083	CHIP4316	STM/STY	1	0	STM2695		Fels-2 prophage: simil	
4084	CHIP4348	STM/STY	1	1	STM0396	sbcD	ATP-deper	STY0430
4085	CHIP4276	STM/STY	1	1	STM3138		putative m	STY3309
4086	CHIP2476	STM/STY	1	0	STM3601		putative ph	STY4202
4087	CHIP2518	STM/STY	1	1	STM3696		putative tra	STY4100
4088	CHIP2550	STM/STY	1	0	STM3784		putative ph	STY3998
4089	CHIP4311	STM/STY	1	1	STM2689		pseudogen	STY2875
4090	CHIP4335	STM/STY	0	0				STY0061
4091	CHIP4359	STM/STY	1	1	STM0423	ispA	geranyltran	STY0462
4092	CHIP4287	STM/STY	1	1	STM3165	yqhE	2,5-diketo-l	STY3338
4093	CHIP4545	STM specil	1	0	STM2236		putative phage protein	
4094	CHIP4561	STM/STY	1	1	STM2157	yehS	putative cy	STY2387
4095	CHIP1893	STM/STY	1	1	STM0938	ybjE	putative inr	STY0934
4096	CHIP2101	STM/STY	1	1	STM3650		putative pe	STY4152
4097	CHIP1933	STM/STY	1	1	STM4338	sugE	putative D	STY4698

4098	CHIP1957	STM/STY	1	1	STM4439	cybC	cytochromε	STY4778
4099	CHIP1919	STM/STY	1	1	STM3438	rplW	50S riboso	STY4360
4100	CHIP1935	STM/STY	1	1	STM4357	yjeE	putative nu	STY4714
4101	CHIP2143	STM/STY	1	0	STM3285	rbfA	ribosome-t	STY3466
4102	CHIP2159	STM/STY	1	1	STM3200	rfaE	bifunctiona	STY3379
4103	CHIP2175	STM/STY	1	1	STM3128		putative ox	STY3297
4104	CHIP1616	STM/STY	1	1	STM2816		putative gly	STY2942
4105	CHIP1977	STM/STY	1	1	STM4582	slt	lytic mureir	STY4929
4106	CHIP4494	STM/STY	1	1	STM0376	sbmA	putative AE	STY0408
4107	CHIP1642	STM/STY	1	0	STM2212	yeiR	putative co	STY2448
4108	CHIP1658	STM/STY	1	1	STM2091	rfbG	LPS side c	STY2301
4109	CHIP1674	STM/STY	1	1	STM2150	stcC	paral putati	STY2379
4110	CHIP1690	STM/STY	1	1	STM1836		putative pe	STY1965
4111	CHIP2244	STM/STY	0	0				
4112	CHIP2260	STM/STY	1	1	STM3064	iciA	inhibitor of	STY3220
4113	CHIP3344	STM/STY	1	1	STM0750	ybgF	putative pe	STY0796
4114	CHIP3392	STM/STY	1	1	STM0820	rhIE	putative AT	STY0855
4115	CHIP2189	STM/STY	1	1	STM3043	dsbC	protein dist	STY3199
4116	CHIP0322	STM/STY	1	1	STM1179	flgG	flagellar bic	STY1218
4117	CHIP3371	STM/STY	1	1	STM0792	ybhB	putative Ph	STY0825
4118	CHIP3419	STM specil	1	0	STM0860		putative inner membra	
4119	CHIP2200	STM/STY	1	1	STM3317	yrbK	putative inr	STY3496
4120	CHIP0333	STM/STY	1	1	STM3764	mgtC	Mg2+ trans	STY4022
4121	CHIP2248	STM/STY	1	1	STM3101	yggT	putative int	STY3254
4122	CHIP0381	STM/STY	1	1	STM1947	uvrY	putative re:	STY2155
4123	CHIP2195	STM/STY	1	1	STM3330	gltB	glutamate :	STY3510
4124	CHIP2211	STM/STY	1	1	STM3254		putative fru	STY3436
4125	CHIP2227	STM/STY	1	1	STM3211	rpoD	sigma D (s	STY3390
4126	CHIP0360	STM/STY	1	1	STM1399	sscA	Secretion ε	STY1721
4127	CHIP0384	STM specil	1	0	STM2232	oafA	O-antigen five: acetylal	
4128	CHIP3351	STM specil	1	0	STM0763		transcriptional regulato	
4129	CHIP0484	STM/STY	1	1	STM0740	cydA	cytochromε	STY0786
4130	CHIP0534	STM/STY	1	1	STM2873	prgI	cell invasio	STY2994
4131	CHIP0527	STM/STY	1	1	STM2799	stpA	DNA-bindir	STY2920
4132	CHIP0496	STM/STY	1	1	STM3727	rpmG	50S riboso	STY4067
4133	CHIP0699	STM/STY	1	1	STM2676	rpsP	30S riboso	STY2863
4134	CHIP4427	STM/STY	1	1	STM0541	ybcJ	putative cy	STY0587
4135	CHIP1021	STM/STY	1	1	STM1706	yciH	putative tra	STY1345
4136	CHIP1038	STM/STY	1	0	STM1699	ycjE	putative cytoplasmic pr	
4137	CHIP1032	STM/STY	1	1	STM1966	yedF	putative tra	STY2174
4138	CHIP4511	STM/STY	1	1	STM1592	ydcY	putative cy	STY1473
4139	CHIP0042	STM/STY	1	0	STM3944		putative inr	STY3615
4140	CHIP0070	STM/STY	1	1	STM3910	ppiC	peptidyl-prε	STY3647
4141	CHIP1161	STM/STY	1	1	STM0982	himD	integration	STY0982
4142	CHIP4182	STM specil	1	0	STM2937	ygbF	putative inner membra	
4143	CHIP2094	STM/STY	1	1	STM3675	sgbH	putative 3-I	STY4121
4144	CHIP3936	STM specil	1	0	STM1358	aroD	3-dehydroquinat dehy	
4145	CHIP3929	STM specil	1	0	STM1351	ydiT	putative ferredoxin	
4146	CHIP4732	STM/STY	1	0	STM3945		pseudogene; 2 frames	
4147	CHIP3609	STM/STY	1	1	STM4336	ecnB	putative en	STY4696
4148	CHIP4330	STM/STY	1	1	STM4599	yjjY	putative inr	STY4948
4149	CHIP4332	STM/STY	1	1	STM0001	thrL	thr operon	STY0001



4150	CHIP4327	STM/STY	1	0	STM4462	yjgG	putative cytoplasmic pr
4151	CHIP4505	STM/STY	1	0	STM1722	trpL	trp operon leader pepti
4152	CHIP4499	STM specil	1	0	STM1281		putative inner membra
4153	CHIP3185	STM/STY	1	1	STM3197	glgS	glycogen b STY3376
4154	CHIP3229	STM/STY	1	1	STM3293	secG	preprotein : STY3471
4155	CHIP3427	STM/STY	1	1	STM0873	ybjC	putative inr STY0906
4156	CHIP3492	STM/STY	1	0	STM0971		putative cytoplasmic pr
4157	CHIP3438	STM specil	1	0	STM0894		Fels-1 prophage; putat
4158	CHIP3329	STM/STY	1	1	STM0719		putative UI STY0759
4159	CHIP1062	STM specil	1	0	PSLT032		putative diguanylate cy
4160	CHIP1102	STM specil	1	0	PSLT093		conjugative transfer:
4161	CHIP1071	STM specil	1	0	PSLT056		putative cytoplasmic pr
4162	CHIP1111	STM specil	1	0	PSLT102	traS	conjugative transfer: su
4163	CHIP0171	STM specil	1	0	PSLT080	traK	conjugative transfer: as
4164	CHIP0428	STM specil	1	0	PSLT008	srgC	sdiA-regulated gene;pu
4165	CHIP4753	STM/STY	0	0			
4166	CHIP4757	STM specil	1	0	PSLT108	tral	conjugative transfer: or
4167	CHIP4761	STM/STY	1	1	STM0032		putative anj STY0039
4168	CHIP4765	STM/STY	0	0			
4169	CHIP4769	STM/STY	0	0			
4170	CHIP4773	STM/STY	0	0			
4171	CHIP4849	STM/STY	0	0			
4172	CHIP4853	STM/STY	0	0			
4173	CHIP4857	STM/STY	0	0			
4174	CHIP4861	STM/STY	0	0			
4175	CHIP4865	STM specil	0	0			
4176	CTRL004	none	0	0			
4177	CHIP5198	STY specif	0	1			STY3189
4178	CHIP5128	STY specif	0	1			STY2069
4179	CHIP5144	STY specif	0	1			STY2299
4180	CHIP5248	STY specif	0	1			STY3686
4181	CHIP5182	STY specif	0	1			STY3064
4182	CHIP4919	STY specif	0	1			STY0207
4183	CHIP5212	STY specif	0	1			STY3345
4184	CHIP5228	STY specif	0	1			STY3664
4185	CHIP5242	STM/STY	0	0			STY3680
4186	CHIP5176	STY specif	0	0			STY2887
4187	CHIP4913	STY specif	0	1			STY0201
4188	CHIP4929	STY specif	0	1			STY0314
4189	CHIP5230	STY specif	0	1			STY3666
4190	CHIP5244	STY specif	0	1			STY3682
4191	CHIP5259	STM/STY	0	0			STY3706
4192	CHIP5274	STY specif	0	1			STY4075
4193	CHIP5018	STY specif	0	1			STY1593
4194	CHIP5034	STY specif	0	1			STY1610
4195	CHIP5166	STY specif	0	1			STY2750
4196	CHIP5180	STM/STY	0	1			STY2906
4197	CHIP5277	STM/STY	0	0			
4198	CHIP5378	STM/STY	0	0			
4199	CHIP5394	STY specif	0	1			STY4668
4200	CHIP5409	STY specif	0	1			STY4821
4201	CHIP5316	STY specif	0	1			STY4549

4202	CHIP5330	STY specif	0	1			STY4569
4203	CHIP5428	STY specif	0	1			STY4850
4204	CHIP5368	STY specif	0	1			STY4619
4205	CHIP5380	STY specif	0	1			STY4648
4206	CHIP5391	STY specif	0	1			STY4665
4207	buffer	none	0	0			
4208	empty	none	0	0			
4209	empty	none	0	0			
4210	empty	none	0	0			
4211	empty	none	0	0			
4212	empty	none	0	0			
4213	CHIP3321	STM/STY	1	0	STM0703	kdpD	sensory kir STY0744
4214	CHIP2578	STM/STY	1	1	STM3833		putative m $\alpha$ STY3945
4215	CHIP2594	STM/STY	1	1	STM3856	pstC	ABC super STY3927
4216	CHIP2610	STM/STY	1	1	STM3888	yieP	putative re $\zeta$ STY3888
4217	CHIP0843	STM/STY	1	1	STM1778	lolB	outer mem STY1904
4218	CHIP0859	STM/STY	1	1	STM0111	leuC	3-isopropyl STY0130
4219	CHIP2628	STM/STY	1	1	STM0042		putative so STY0050
4220	CHIP2660	STM/STY	1	1	STM0119	yabB	putative cy $\beta$ STY0139
4221	CHIP2676	STM/STY	1	1	STM0150	aroP	APC family STY0173
4222	CHIP2692	STM specif	1	0	STM0176	stiB	putative fimbrial chapa
4223	CHIP2708	STM specif	1	0	STM0201		putative outer membra
4224	CHIP2724	STM/STY	1	1	STM0238	yaeP	putative cy $\beta$ STY0263
4225	CHIP3254	STM/STY	1	1	STM3346	yhcM	putative AT STY3526
4226	CHIP3270	STM/STY	1	1	STM3381	yhdT	putative inr STY3561
4227	CHIP3286	STM/STY	1	1	STM0647	rlpB	a minor lip $\alpha$ STY0698
4228	CHIP3302	STM/STY	1	1	STM0671	yleB	putative m $\alpha$ STY0717
4229	CHIP3318	STM/STY	1	1	STM0700	potE	APC family STY0738
4230	CHIP0784	STM/STY	1	1	STM1962	fliT	flagellar bic STY2170
4231	CHIP3896	STM/STY	1	1	STM1285	yeaG	putative Se STY1831
4232	CHIP4009	STM/STY	1	0	STM2115	wcaA	putative gly STY2328
4233	CHIP4033	STM/STY	1	1	STM2718		Fels-2 pro $\zeta$ STY4623
4234	CHIP4057	STM specif	1	0	STM2750		putative PTS system, $\zeta$
4235	CHIP4073	STM specif	1	0	STM2766		putative cytoplasmic pr
4236	CHIP4089	STM/STY	1	1	STM2792	gabT	4-aminobu $\beta$ STY2912
4237	CHIP3739	STM/STY	1	1	STM4597		putative pe STY4946
4238	CHIP3755	STM specif	1	0	STM0284		putative shiga-like toxir
4239	CHIP4067	STM specif	1	0	STM2760		putative integrase
4240	CHIP3795	STM/STY	1	1	STM1057	pepN	aminopepti STY1078
4241	CHIP2379	STM/STY	1	1	STM1495	ynfl	putative co STY1569
4242	CHIP2395	STM/STY	1	1	STM3452	yheO	putative re $\zeta$ STY4346
4243	CHIP3797	STM/STY	1	1	STM1060		putative iro STY1081
4244	CHIP2373	STM/STY	1	1	STM1456	ydgO	putative ox STY1666
4245	CHIP2389	STM/STY	1	1	STM3421	rpLO	50S riboso $\beta$ STY4377
4246	CHIP2405	STM/STY	1	1	STM3467	yhfK	putative inr STY4329
4247	CHIP2421	STM/STY	1	1	STM3500	pckA	phosphoen STY4296
4248	CHIP3885	STM/STY	1	1	STM1265		putative re $\zeta$ STY1856
4249	CHIP3831	STM/STY	1	0	STM1128		putative so STY1164
4250	CHIP3855	STM/STY	1	1	STM1199	yceG	putative pe STY1238
4251	CHIP3871	STM/STY	1	1	STM1218	ycfV	ABC trans $\zeta$ STY1258
4252	CHIP2447	STM/STY	1	1	STM3542	gntK	gluconate $\beta$ STY4269
4253	CHIP3520	STM specif	1	0	STM1029		Gifsy-2 prophage

4254	CHIP3544	STM specil	1	0	STM4202		putative phage basepla
4255	CHIP4106	STM/STY	1	1	STM4057		putative inr STY3814
4256	CHIP4122	STM/STY	1	1	STM4090	menA	1,4-dihydro STY3780
4257	CHIP4146	STM/STY	1	1	STM4129	trmA	tRNA (urac STY3745
4258	CHIP4162	STM/STY	1	1	STM2907	pphB	serine/thre STY3030
4259	CHIP3610	STM/STY	1	1	STM4337	ecnR	putative ba STY4697
4260	CHIP3050	STM/STY	1	1	STM2391	fadL	transport o STY2623
4261	CHIP3436	STM/STY	1	1	STM0891	artP	ABC super STY0924
4262	CHIP3076	STM/STY	1	1	STM2472	maeB	paral putati STY2709
4263	CHIP3092	STM/STY	1	1	STM2494		putative inr STY2735
4264	CHIP3116	STM/STY	1	1	STM2551		putative inr STY2797
4265	CHIP4109	STM/STY	1	0	STM4065		putative pe STY3805
4266	CHIP4125	STM/STY	1	1	STM4098		putative ar STY3771
4267	CHIP4159	STM specil	1	0	STM2903		putative cytoplasmic pr
4268	CHIP4175	STM/STY	1	1	STM2926	pcm	L-isoaspart STY3051
4269	CHIP4191	STM/STY	1	1	STM2953	pyrG	CTP synth STY3082
4270	CHIP3439	STM specil	1	0	STM0895		Fels-1 prophage
4271	CHIP3455	STM specil	0	0			
4272	CHIP3471	STM specil	1	0	STM0928	nanH	sialidase (neuraminida
4273	CHIP2349	STM/STY	1	1	STM1310	nadE	NAD synth STY1803
4274	CHIP2365	STM/STY	1	1	STM1437	ydhM	putative tra STY1685
4275	CHIP2954	STM/STY	1	1	STM1984	yodD	putative cy STY2192
4276	CHIP3650	STM specil	1	0	STM4423		putative AraC-type DN.
4277	CHIP2994	STM/STY	1	1	STM2285	glpB	sn-glycerol STY2514
4278	CHIP3690	STM/STY	1	1	STM4499	yeeN	putative cy STY4855
4279	CHIP3684	STM specil	1	0	STM4493		putative cytoplasmic pr
4280	CHIP3700	STM/STY	1	0	STM4518		putative inner membra
4281	CHIP2280	STM/STY	1	1	STM1136	ycdX	putative Hi STY1173
4282	CHIP2296	STM/STY	1	1	STM1296	ydjA	putative ox STY1818
4283	CHIP2312	STM/STY	1	1	STM1446	ydhH	putative cy STY1676
4284	CHIP0253	STM/STY	1	1	STM1470	tus	replication STY1652
4285	CHIP2314	STM/STY	1	1	STM1476	ydgC	putative inr STY1646
4286	CHIP2330	STM/STY	1	1	STM1154	yceE	putative Mf STY1191
4287	CHIP0271	STM/STY	1	1	STM2864	sitD	Salmonella STY2986
4288	CHIP2370	STM/STY	1	1	STM1453	nth	endonucle STY1669
4289	CHIP2959	STM/STY	1	1	STM1990	yedA	putative pe STY2198
4290	CHIP2975	STM/STY	1	1	STM2074	hisB	bifunctiona STY2283
4291	CHIP3905	STM/STY	1	1	STM1298	topB	DNA topois STY1816
4292	CHIP0498	STM/STY	1	1	STM1444	slyA	transcriptio STY1678
4293	CHIP3953	STM/STY	1	1	STM1433	ydhD	putative glt STY1689
4294	CHIP3969	STM/STY	1	1	STM1466	ydgA	putative pe STY1656
4295	CHIP0562	STM/STY	1	1	STM1415	ssaN	Secretion s STY1705
4296	CHIP1413	STM/STY	1	1	STM3875	mioC	initiation of STY3903
4297	CHIP1319	STM/STY	1	1	STM3782		putative PT STY4000
4298	CHIP1431	STM/STY	1	1	STM2578	pdxJ	carries out STY2824
4299	CHIP1455	STM/STY	1	1	STM0398	phoR	sensory kir STY0433
4300	CHIP1471	STM/STY	1	1	STM4183	aceB	malate syn STY4401
4301	CHIP1399	STM/STY	1	1	STM0069	caiE	stimulates STY0079
4302	CHIP3916	STM/STY	1	1	STM1322	yniC	putative en STY1789
4303	CHIP3918	STM/STY	1	1	STM1330		putative Df STY1781
4304	CHIP0511	STM/STY	1	1	STM1981	fliR	putative fla STY2189
4305	CHIP3966	STM/STY	1	1	STM1462	ydgJ	putative ox STY1660

4306	CHIP3982	STM/STY	1	1	STM1489	ynfK	putative de	STY1575
4307	CHIP0575	STM/STY	1	1	STM2371	flk	Couples flæ	STY2602
4308	CHIP1434	STM/STY	1	1	STM2573		putative ke	STY2819
4309	CHIP3160	STM specil	1	0	STM2617		Gifsy-1 prophage: simi	
4310	CHIP3176	STM/STY	1	1	STM3180	ygiN	putative cyf	STY3358
4311	CHIP2060	STM/STY	1	1	STM3570	ftsE	putative AT	STY4241
4312	CHIP2076	STM/STY	1	1	STM3482	gph	phosphoglj	STY4314
4313	CHIP0970	STM/STY	1	1	STM0346		putative ou	STY0380
4314	CHIP0986	STM/STY	1	1	STM1382	orf408	putative reç	STY1739
4315	CHIP1559	STM/STY	1	1	STM0465	ybaY	glycoprotei	STY0509
4316	CHIP1591	STM/STY	1	1	STM0559	rflb	putative gly	STY0607
4317	CHIP1999	STM/STY	1	1	STM4414	ppa	inorganic p	STY4773
4318	CHIP2015	STM/STY	1	1	STM4532	yjiY	putative ca	STY4890
4319	CHIP3179	STM/STY	1	1	STM3189	ygiD	putative cyf	STY3367
4320	CHIP3195	STM/STY	1	1	STM3219	fadH	2,4-dieonyl	STY3397
4321	CHIP3197	STM/STY	1	1	STM3221	ygiP	putative mε	STY3401
4322	CHIP2073	STM/STY	1	1	STM3491	yrfC	putative inr	STY4305
4323	CHIP1522	STM/STY	1	1	STM2338	pta	phosphotra	STY2568
4324	CHIP1546	STM/STY	1	1	STM2553	csiE	stationary ç	STY2800
4325	CHIP1570	STM/STY	1	1	STM0529	fdrA	putative ac	STY0577
4326	CHIP1586	STM/STY	1	1	STM0528	allD	ureidoglycc	STY0576
4327	CHIP0745	STM/STY	1	1	STM2909	mutS	methyl-dire	STY3033
4328	CHIP1812	STM/STY	1	1	STM4060	cpxP	periplasmic	STY3811
4329	CHIP1844	STM/STY	1	1	STM0663	gltK	ABC super	STY0708
4330	CHIP1884	STM/STY	1	1	STM3406	def	peptide def	STY4391
4331	CHIP0682	STM/STY	1	1	STM2582	lepB	leader pepf	STY2828
4332	CHIP0698	STM/STY	1	1	STM2078	hisl	bifunctiona	STY2287
4333	CHIP1823	STM/STY	1	1	STM4009	typA	GTP-bindir	STY3871
4334	CHIP1855	STM/STY	1	1	STM0879	potH	ABC super	STY0912
4335	CHIP1887	STM/STY	1	1	STM3410	mscL	mechanosε	STY4387
4336	CHIP0597	STM specil	1	0	STM2772	hin	H inversion: regulation	
4337	CHIP0709	STM/STY	1	1	STM1184	flgL	flagellar bic	STY1223
4338	CHIP0725	STM/STY	1	1	STM2580	era	GTPase bε	STY2826
4339	CHIP0592	STM/STY	1	1	STM3614	dctA	DAACS far	STY4189
4340	CHIP0704	STM/STY	1	1	STM2555	glyA	serine hydr	STY2802
4341	CHIP0640	STM/STY	0	1				STY1159
4342	CHIP0664	STM/STY	1	1	STM1467	manA	mannose-ε	STY1655
4343	CHIP1827	STM/STY	1	1	STM0867		putative hy	STY0900
4344	CHIP1859	STM/STY	1	1	STM0836	ybiR	putative Di	STY0877
4345	CHIP4706	STM/STY	1	1	STM1858		putative cyf	STY1993
4346	CHIP4722	STM/STY	1	1	STM2173		putative cyf	STY2403
4347	CHIP3333	STM/STY	1	1	STM0725		putative gly	STY0767
4348	CHIP1222	STM/STY	1	1	STM4304	dcuS	sensory hiε	STY4502
4349	CHIP1238	STM/STY	1	1	STM1938	yecA	putative mε	STY2146
4350	CHIP1262	STM/STY	1	1	STM1679	mppA	periplasmic	STY1384
4351	CHIP1264	STM/STY	1	1	STM1688	pspC	phage shoε	STY1373
4352	CHIP0453	STM/STY	1	1	STM4262		putative AE	STY4460
4353	CHIP1304	STM/STY	1	1	STM0048	slpA	FKBP-type	STY0057
4354	CHIP4685	STM/STY	1	1	STM1025		Gifsy-2 pro	STY1039
4355	CHIP4701	STM/STY	1	1	STM1649		putative cyf	STY1420
4356	CHIP0142	STM/STY	1	1	STM4019	yihQ	putative alç	STY3859
4357	CHIP0136	STM/STY	1	1	STM3567	livJ	ABC super	STY4244

4358	CHIP4735	STM/STY	1	0	STM2728	Fels-2 proç	STY3669	
4359	CHIP3760	STM/STY	0	0				
4360	CHIP0400	STM/STY	1	1	STM2436	ptsJ	putative reç	STY2674
4361	CHIP1251	STM/STY	1	1	STM1903	yecE	putative cy	STY2111
4362	CHIP0440	STM/STY	1	1	STM4260		membrane	STY4457
4363	CHIP1733	STM/STY	1	1	STM3019	yqeF	putative ac	STY3164
4364	CHIP0922	STM/STY	1	1	STM3209	rpsU	30S riboso	STY3388
4365	CHIP1773	STM/STY	1	1	STM2877	iagB	cell invasio	STY3000
4366	CHIP0019	STM/STY	1	1	STM3968	udp	uridine pho	STY3591
4367	CHIP0920	STM/STY	1	1	STM3838	dnaA	DNA replic	STY3940
4368	CHIP2181	STM/STY	1	1	STM3063	rpiA	ribosephos	STY3219
4369	CHIP0053	STM/STY	1	1	STM3929	wecG	putative UI	STY3626
4370	CHIP2249	STM/STY	1	1	STM3100	yggS	putative en	STY3253
4371	CHIP0093	STM/STY	1	1	STM4152	rplL	50S riboso	STY3733
4372	CHIP0877	STM/STY	1	1	STM0543	fimA	major type	STY0589
4373	CHIP0893	STM/STY	1	1	STM1916	cheY	chemotaxis	STY2125
4374	CHIP0909	STM/STY	1	1	STM4004	hemN	O <sub>2</sub> -indep	STY3877
4375	CHIP1762	STM/STY	1	1	STM3014	lysR	positive tra	STY3158
4376	CHIP1794	STM/STY	1	1	STM4011		putative inr	STY3869
4377	CHIP0040	STM/STY	1	1	STM3947	dapF	diaminopir	STY3612
4378	CHIP0080	STM/STY	1	0	STM3899	yifB	putative mç	STY3657
4379	CHIP0872	STM/STY	0	0	STM1959	fliC	flagellar biosynthesis;	f
4380	CHIP0888	STM/STY	1	1	STM2946	cysH	3'-phospho	STY3074
4381	CHIP2769	STM/STY	1	1	STM1567	adhP	alcohol def	STY1493
4382	CHIP2793	STM/STY	1	1	STM1610	ydcK	putative nu	STY1454
4383	CHIP2817	STM/STY	1	1	STM1646	ydbH	putative pe	STY1423
4384	CHIP2833	STM/STY	1	1	STM1671		putative ba	STY1393
4385	CHIP1142	STM/STY	1	1	STM1542		putative zir	STY1520
4386	CHIP1158	STM/STY	1	1	STM1510	ydfH	putative reç	STY1551
4387	CHIP1168	STM/STY	1	1	STM1000	asnS	asparagine	STY1004
4388	CHIP4452	STM/STY	1	1	STM0590	fepC	ABC s+upç	STY0634
4389	CHIP4476	STM/STY	1	1	STM0339	stbB	putative fir	STY0372
4390	CHIP2860	STM/STY	1	1	STM1741		putative vo	STY1310
4391	CHIP2780	STM/STY	1	1	STM1589	yncB	putative N/	STY1476
4392	CHIP2900	STM/STY	1	1	STM1835	rrmA	23S rRNA	STY1964
4393	CHIP2806	STM specil	1	0	STM1629		putative dipicolinate re	
4394	CHIP2926	STM/STY	1	1	STM1884	eda	multifunctic	STYkdgA
4395	CHIP2942	STM/STY	1	1	STM1932	ftnB	ferritin-like	STY2141
4396	CHIP4407	STM/STY	1	1	STM0515	allA	ureidoglycc	STYglxA2
4397	CHIP4423	STM/STY	1	1	STM0537	cysS	cysteine tR	STY0585
4398	CHIP4439	STM specil	1	0	STM0572		putative phosphosugar	
4399	CHIP4345	STM/STY	1	1	STM0393	yajF	putative su	STY0426
4400	CHIP4281	STM/STY	1	1	STM3150	hypO	putative Ni/	STY3321
4401	CHIP4585	STM/STY	1	1	STM2831	mltB	membrane	STY2952
4402	CHIP2489	STM/STY	1	1	STM3632		putative PC	STY4165
4403	CHIP4625	STM/STY	1	1	STM4509		putative cy	STY4865
4404	CHIP4649	STM/STY	1	1	STM2395	pgtE	Phosphoglç	STY2632
4405	CHIP2539	STM/STY	1	1	STM3765	yicL	putative pe	STY4021
4406	CHIP4212	STM/STY	1	1	STM2992	argA	N-alpha-ac	STY3130
4407	CHIP4228	STM/STY	1	1	STM3026		putative ou	STY3174
4408	CHIP4260	STM/STY	1	1	STM3105	yggM	putative pe	STY3258
4409	CHIP4380	STM/STY	1	1	STM0464	tesB	acyl-CoA tç	STY0508

4410	CHIP4596	STM/STY	1	1	STM2803		putative re	STY2926
4411	CHIP2526	STM/STY	1	1	STM3725	kdtB	phosphopa	STY4069
4412	CHIP4199	STM/STY	1	1	STM2972	exo	exonuclea	STY3111
4413	CHIP4223	STM/STY	1	1	STM3018	kdul	putative pe	STY3163
4414	CHIP4247	STM specil	1	0	STM3081		putative malate/L-lacta	
4415	CHIP4271	STM/STY	1	1	STM3125		putative cy	STY3294
4416	CHIP4583	STM/STY	1	1	STM2829	recA	DNA stranc	STY2950
4417	CHIP1669	STM/STY	1	1	STM2117	wzb	putative pr	STY2330
4418	CHIP1685	STM/STY	1	0	STM2243		putative tail fiber protei	
4419	CHIP2085	STM/STY	1	1	STM3712	rfaC	heptosyl tr	STY4083
4420	CHIP1917	STM/STY	1	1	STM3436	rpsS	30S riboso	STY4362
4421	CHIP2133	STM/STY	1	1	STM3329	yhcC	putative Fe	STY3508
4422	CHIP2149	STM/STY	1	1	STM3251		putative su	STY3433
4423	CHIP2111	STM/STY	1	1	STM3592	yhiP	putative PC	STY4211
4424	CHIP2127	STM/STY	1	1	STM0951		putative cy	STY0949
4425	CHIP1959	STM/STY	1	1	STM4444		putative inr	STY4783
4426	CHIP1975	STM/STY	1	1	STM4570	deoD	purine-nucl	STY4921
4427	CHIP4484	STM specil	1	0	STM0352		putative cation efflux p	
4428	CHIP4500	STM/STY	1	1	STM1300		putative pe	STY1814
4429	CHIP1985	STM/STY	1	1	STM4328	yjeH	putative tra	STY4688
4430	CHIP1618	STM/STY	1	1	STM2819	yqaA	putative inr	STY2945
4431	CHIP4526	STM/STY	1	1	STM2196		putative D-	STY2430
4432	CHIP4542	STM specil	1	0	STM2233		putative cytoplasmic pr	
4433	CHIP4558	STM/STY	1	1	STM2151	stcB	putative pe	STY2380
4434	CHIP4574	STM/STY	1	1	STM2179		putative su	STY2409
4435	CHIP0361	STM/STY	1	1	STM1400	sseC	Secretion	STY1720
4436	CHIP2268	STM/STY	1	1	STM1069	ycbG	putative cy	STY1090
4437	CHIP3352	STM specil	1	0	STM0764		transcriptional regulato	
4438	CHIP3400	STM/STY	1	1	STM0834	ybiP	putative Int	STY0875
4439	CHIP0306	STM/STY	1	1	STM1302	xthA	exonuclea	STY1812
4440	CHIP2213	STM/STY	1	1	STM3250	garD	galactarate	STY3432
4441	CHIP3387	STM/STY	1	1	STM0815	ybhR	putative AE	STY0850
4442	CHIP2184	STM/STY	1	1	STM3056	visC	putative m	STY3212
4443	CHIP0317	STM/STY	1	1	STM1958	fliB	N-methylat	STYnml
4444	CHIP2224	STM/STY	1	1	STM3224	ygjT	putative re	STY3404
4445	CHIP2256	STM/STY	1	1	STM3075		putative AE	STY3233
4446	CHIP2272	STM/STY	1	1	STM1097		putative pe	STY1129
4447	CHIP0312	STM/STY	1	1	STM2875	hilD	regulatory I	STY2996
4448	CHIP0328	STM/STY	1	1	STM3758	fidL	putative inr	STY4029
4449	CHIP2235	STM/STY	1	1	STM3167		putative di	STY3341
4450	CHIP0368	STM/STY	1	1	STM1406	ssaG	Secretion	STY1714
4451	CHIP2275	STM/STY	1	1	STM1107	hpaX	4-hydroxyp	STY1141
4452	CHIP3359	STM/STY	1	1	STM0778	modF	putative AE	STY0811
4453	CHIP1552	STM/STY	1	1	STM2484		putative inr	STY2722
4454	CHIP1529	STM/STY	1	1	STM2539	hscA	chaperone	STY2785
4455	CHIP1554	STM/STY	1	1	STM2482	yffB	putative glt	STY2720
4456	CHIP1579	STM/STY	1	1	STM0480	ybaM	putative inr	STY0524
4457	CHIP1696	STM/STY	1	1	STM1797	ymgE	putative tra	STY1925
4458	CHIP3536	STM/STY	1	1	STM4194	yjbD	putative cy	STY4411
4459	CHIP2014	STM/STY	1	1	STM4531	yjiX	putative cy	STY4889
4460	CHIP2067	STM/STY	1	1	STM3525	glpE	thiosulfate/	STY4278
4461	CHIP2116	STM/STY	1	1	STM3565	yhhK	putative ac	STY4247

4462	CHIP3598	STM/STY	1	1	STM4314	putative ba	STY4514	
4463	CHIP3559	STM specil	1	0	STM4218	putative inner membra		
4464	CHIP4041	STM/STY	1	1	STM2731	Fels-2 proç	STY4638	
4465	CHIP2498	STM/STY	1	1	STM3658	yiaH	putative inr	STY4140
4466	CHIP3728	STM specil	1	0	STM4574		putative outer membra	
4467	CHIP3775	STM/STY	1	1	STM0318	yafA	putative hy	STY0363
4468	CHIP1311	STM/STY	1	1	STM0004	thrC	threonine s	STY0004
4469	CHIP3979	STM/STY	1	1	STM1485		acid shock	STY1582
4470	CHIP3956	STM/STY	0	0				STY1684
4471	CHIP2621	STM/STY	1	1	STM0030		putative tra	STY0036
4472	CHIP2637	STM/STY	1	1	STM0064	dapB	dihydrodipi	STY0073
4473	CHIP2622	STM/STY	1	0	STM0031		putative tra	STY0038
4474	CHIP2623	STM/STY	1	1	STM0034		putative ou	STY0041
4475	CHIP4498	STM/STY	1	1	STM1159	yceO	putative inr	STY1197
4476	CHIP3096	STM specil	1	0	STM2508		putative cytoplasmic pr	
4477	CHIP3217	STM/STY	1	1	STM3272	yhbS	putative AE	STY3455
4478	CHIP3198	STM/STY	1	1	STM3232	yqjF	putative mε	STY3412
4479	CHIP3443	STM specil	1	0	STM0899		Fels-1 prophage	
4480	CHIP3500	STM/STY	1	1	STM0987	ycaR	putative inr	STY0989
4481	CHIP3462	STM specil	1	0	STM0919		Fels-1 prophage; putat	
4482	CHIP3346	STM/STY	1	1	STM0757	pnuC	NMN famil;	STY0798
4483	CHIP1070	STM specil	1	0	PSLT053	parB	plasmid partition protei	
4484	CHIP1110	STM specil	1	0	PSLT101	traG	conjugative transfer: as	
4485	CHIP1079	STM specil	1	0	PSLT065		pseudogene; two fram	
4486	CHIP0169	STM specil	1	0	PSLT077	traA	conjugative transfer: fir	
4487	CHIP0419	STM specil	1	0	PSLT017	pefC	plasmid-encoded fimbr	
4488	CHIP0421	STM specil	1	0	PSLT014	orf6	putative outer membra	
4489	CHIP4754	STM specil	1	0	PSLT059		putative adenine-speci	
4490	CHIP4758	STM/STY	1	1	STM1919	cheM	methyl acc	STY2128
4491	CHIP4762	STM/STY	0	0				
4492	CHIP4766	STM/STY	0	0				
4493	CHIP4770	STM/STY	0	0				
4494	CHIP4774	STM/STY	1	1	STM0291		putative Rf	STY0321
4495	CHIP4850	STM/STY	0	0				
4496	CHIP4854	STM/STY	0	0				
4497	CHIP4858	STM specil	0	0				
4498	CHIP4862	STM specil	0	0				
4499	CHIP4866	STM/STY	0	0				
4500	CTRL005	none	0	0				
4501	CHIP5112	STY specif	0	1				STY2053
4502	CHIP5218	STM/STY	0	1				STY3632
4503	CHIP5233	STY specif	0	1				STY3670
4504	CHIP5255	STY specif	0	0				STY2889
4505	CHIP5271	STY specif	0	1				STY3950
4506	CHIP5014	STM/STY	0	1				STY1545
4507	CHIP5130	STY specif	0	1				STY2071
4508	CHIP5146	STY specif	0	1				STY2349
4509	CHIP5162	STM/STY	0	0				
4510	CHIP5265	STY specif	0	1				STY3918
4511	CHIP5008	STY specif	0	1				STY1361
4512	CHIP5024	STY specif	0	1				STY1599
4513	CHIP5148	STY specif	0	1				STY2351

4514	CHIP5164	STY specif	0	1			STY2748
4515	CHIP5178	STY specif	0	0			
4516	CHIP4915	STY specif	0	1			STY0203
4517	CHIP4931	STY specif	0	1			STY0323
4518	CHIP4947	STM/STY	0	1			STY0479
4519	CHIP5253	STY specif	0	1			STY3692
4520	CHIP5269	STY specif	0	1			STY3948
4521	CHIP5283	STY specif	0	1			STY4208
4522	CHIP5297	STY specif	0	1			STY4521
4523	CHIP5320	STY specif	0	1			STY4554
4524	CHIP5334	STY specif	0	1			STY4573
4525	CHIP5397	STY specif	0	1			STY4672
4526	CHIP5413	STY specif	0	1			STY4825
4527	CHIP5354	STY specif	0	1			STY4594
4528	CHIP5287	STY specif	0	1			STY4222
4529	CHIP5302	STY specif	0	1			STY4526
4530	CHIP5317	STY specif	0	1			STY4550
4531	buffer	none	0	0			
4532	empty	none	0	0			
4533	empty	none	0	0			
4534	empty	none	0	0			
4535	empty	none	0	0			
4536	empty	none	0	0			
4537	CHIP0771	STM/STY	1	1	STM2895	invB	surface pre STY3018
4538	CHIP0795	STM/STY	1	1	STM0488	adk	adenylate t STY0532
4539	CHIP0811	STM/STY	1	1	STM2027	cbiH	synthesis c STY2232
4540	CHIP0827	STM/STY	1	1	STM3788	uhpC	membrane STY3994
4541	CHIP2634	STM/STY	1	1	STM0060	citE2	putative cit STY0069
4542	CHIP2650	STM/STY	1	1	STM0090	ksgA	S-adenosyl STY0105
4543	CHIP0845	STM/STY	1	1	STM0231	dnaE	DNA polymr STY0254
4544	CHIP3236	STM/STY	1	1	STM3306	nlp	regulatory f STY3485
4545	CHIP3252	STM/STY	1	1	STM3344	rpsI	30S riboso STY3524
4546	CHIP3268	STM/STY	1	1	STM3377		putative nit STY3557
4547	CHIP3284	STM/STY	1	1	STM0639	mrdB	rod shape- STY0690
4548	CHIP3300	STM/STY	1	1	STM0662	glfL	ABC super STY0707
4549	CHIP2686	STM/STY	1	1	STM0169	gcd	glucose de STY0191
4550	CHIP2702	STM/STY	1	1	STM0188	ligT	2'-5' RNA li STY0213
4551	CHIP2718	STM/STY	1	1	STM0224	yaeT	putative ou STY0247
4552	CHIP2734	STM/STY	1	1	STM1508	ydfI	putative m: STY1553
4553	CHIP2750	STM/STY	1	1	STM1540		putative hy STY1522
4554	CHIP2575	STM specif	1	0	STM3830	dgoR	galactonate operon tra
4555	CHIP2456	STM/STY	1	1	STM3569	ftsX	putative int STY4242
4556	CHIP3721	STM/STY	1	1	STM4559	yjjG	putative ha STY4909
4557	CHIP3745	STM/STY	1	1	STM0257		putative drı STY0278
4558	CHIP3769	STM/STY	1	1	STM0309	yafH	putative ac STY0354
4559	CHIP3785	STM specif	1	0	STM0332		putative hydrolase or a
4560	CHIP3801	STM/STY	1	1	STM1068	lonH	putative prı STY1089
4561	CHIP4035	STM/STY	1	0	STM2720		Fels-2 prophage: simil:
4562	CHIP3763	STM specif	1	0	STM0294		putative cytoplasmic pr
4563	CHIP4075	STM specif	1	0	STM2768		putative transposase
4564	CHIP3803	STM/STY	1	1	STM1073	yccS	putative eff STY1095
4565	CHIP3827	STM/STY	1	1	STM1119	wraB	trp-repress STY1155



4566	CHIP3843	STM/STY	1	1	STM1156	yceA	putative en	STY1193
4567	CHIP4093	STM/STY	1	1	STM3994	mobA	putative mc	STY3886
4568	CHIP3821	STM/STY	1	1	STM1104	hpaF	4-hydroxyp	STY1138
4569	CHIP3837	STM/STY	1	1	STM1138	ycdZ	putative inr	STY1175
4570	CHIP3853	STM/STY	1	1	STM1196	acpP	acyl carrier	STY1235
4571	CHIP3869	STM/STY	1	1	STM1216	mfd	transcriptio	STY1256
4572	CHIP2445	STM/STY	1	1	STM3538	glgB	1,4-alpha-ç	STY4272
4573	CHIP3839	STM/STY	1	1	STM1150	mdoG	periplasmic	STY1187
4574	CHIP2415	STM/STY	1	1	STM3495	yrfF	putative inr	STY4301
4575	CHIP2431	STM specil	1	0	STM3519	rtcB	putative cytoplasmic pr	
4576	CHIP3895	STM/STY	1	1	STM1283	yeaJ	putative Mç	STY1834
4577	CHIP4096	STM/STY	1	1	STM4012		putative co	STY3867
4578	CHIP4120	STM/STY	1	1	STM4087	glpF	MIP chann	STY3783
4579	CHIP3538	STM specil	1	0	STM4196		putative cytoplasmic pr	
4580	CHIP3554	STM specil	1	0	STM4212		putative phage tail core	
4581	CHIP3578	STM/STY	1	1	STM4268	yjcD	putative xa	STY4466
4582	CHIP3594	STM/STY	1	1	STM4305		putative an	STY4503
4583	CHIP4186	STM specil	1	0	STM2941	yghJ	putative cytoplasmic pr	
4584	CHIP3434	STM/STY	1	1	STM0889	artQ	ABC super	STY0922
4585	CHIP3060	STM/STY	1	1	STM2415	gltX	glutamate t	STY2654
4586	CHIP3460	STM specil	1	0	STM0917		Fels-1 prophage; putat	
4587	CHIP3476	STM/STY	1	1	STM0939	ybjD	homology \	STY0935
4588	CHIP3508	STM/STY	1	1	STM1002		putatiave d	STY1006
4589	CHIP3541	STM specil	1	0	STM4199		putative cytoplasmic pr	
4590	CHIP4133	STM specil	1	0	STM4110	ptsA	General PTS family, er	
4591	CHIP3591	STM/STY	1	1	STM4290	proP	MFS family	STY4489
4592	CHIP3607	STM/STY	1	1	STM4334	efp	elongation	STY4694
4593	CHIP3047	STM/STY	1	1	STM2383	mepA	murein DD	STY2615
4594	CHIP3063	STM/STY	1	1	STM2423	yfeN	putative ou	STY2659
4595	CHIP3079	STM/STY	1	1	STM2476	ypfG	putative pe	STY2713
4596	CHIP3095	STM/STY	0	0	STM2506		putative inner membra	
4597	CHIP0274	STM/STY	1	1	STM2876	hilA	invasion ge	STY2999
4598	CHIP3618	STM/STY	1	1	STM4351		putative arç	STY4711
4599	CHIP3634	STM/STY	1	1	STM4392	priB	primosoma	STY4748
4600	CHIP2978	STM/STY	1	1	STM2259	napA	periplasmic	STY2485
4601	CHIP3674	STM/STY	1	0	STM4482	idnT	GntP family, L-idonate	
4602	CHIP3018	STM/STY	1	1	STM2335	yfbU	putative cy	STY2565
4603	CHIP3012	STM/STY	1	1	STM2326	nuoC	NADH deh	STY2556
4604	CHIP3708	STM specil	1	0	STM4534		putative NtrC family tra	
4605	CHIP0205	STM/STY	1	1	STM1954	fliY	putative pe	STY2162
4606	CHIP0221	STM/STY	1	1	STM3443	bfr	bacteriofer	STY4355
4607	CHIP2320	STM/STY	1	1	STM1074	yccF	putative inr	STY1096
4608	CHIP2336	STM/STY	1	1	STM1222	potD	ABC super	STY1262
4609	CHIP0239	STM/STY	1	1	STM2468	eutQ	putative etf	STY2704
4610	CHIP2338	STM/STY	1	1	STM1225	potB	ABC super	STY1265
4611	CHIP2354	STM/STY	1	1	STM1328		putative ou	STY1783
4612	CHIP3623	STM/STY	1	1	STM4371	yjfJ	putative Ph	STY4728
4613	CHIP3639	STM/STY	1	1	STM4405	ytfJ	putative tra	STY4763
4614	CHIP3655	STM specil	1	0	STM4428		putative permease	
4615	CHIP0482	STM/STY	1	1	STM1145	csgC	putative cu	STY1182
4616	CHIP0506	STM/STY	1	1	STM1862	pagO	PhoPQ-act	STY2000
4617	CHIP0530	STM/STY	1	1	STM1751	hns	DNA-bindir	STY1299

4618	CHIP0546	STM/STY	1	1	STM1173	flgA	flagellar bic	STY1212
4619	CHIP3993	STM specil	1	0	STM2087	rfbV	LPS side chain defect:	
4620	CHIP1325	STM/STY	1	1	STM3796	ilvB	acetolactat	STY3986
4621	CHIP1415	STM/STY	1	1	STM3864	atpC	membrane	STY3914
4622	CHIP1439	STM/STY	1	1	STM2641	nadB	quinolinate	STY2834
4623	CHIP1367	STM/STY	1	1	STM0243	yaeB	paral putati	STY0270
4624	CHIP1383	STM/STY	1	1	STM0094	djIA	DnaJ like c	STY0109
4625	CHIP1495	STM/STY	1	1	STM2382	yfcA	putative pe	STY2614
4626	CHIP3924	STM/STY	1	1	STM1344	ydiV	putative Di	STY1766
4627	CHIP3926	STM/STY	1	1	STM1348	ydiA	putative inr	STY1762
4628	CHIP0519	STM/STY	1	1	STM0999	ompF	outer mem	STY1002
4629	CHIP0543	STM/STY	1	1	STM3562	livM	ABC super	STY4250
4630	CHIP0559	STM/STY	1	1	STM1412	ssaL	Secretion $\epsilon$	STY1708
4631	CHIP1330	STM/STY	1	1	STM2257	napH	ferredoxin-	STY2483
4632	CHIP1346	STM/STY	0	0	STM0279		putative cyI	STY0302
4633	CHIP2020	STM/STY	1	1	STM4556	rsmC	16S rRNA	STY4906
4634	CHIP2044	STM/STY	1	1	STM3644	bisC	biotin sulfo	STY4158
4635	CHIP3208	STM/STY	1	1	STM3257		putative ta	STY3439
4636	CHIP3224	STM/STY	1	1	STM3281	nlpl	lipoprotein,	STY3462
4637	CHIP1517	STM/STY	1	1	STM2414	yfeD	putative ne	STY2653
4638	CHIP1533	STM/STY	0	0				STY2766
4639	CHIP1567	STM/STY	1	1	STM0510	sfbA	putative AE	STY0558
4640	CHIP1599	STM/STY	1	1	STM0606	ybdO	putative tra	STY0651
4641	CHIP3147	STM specil	1	0	STM2603		Gifsy-1 prophage: simi	
4642	CHIP2023	STM/STY	1	1	STM4576	lplA	lipoate-proI	STY4923
4643	CHIP2039	STM/STY	1	1	STM3667	yiaJ	transcriptio	STY4131
4644	CHIP2055	STM/STY	1	1	STM3606	yhjB	putative tra	STY4197
4645	CHIP2057	STM/STY	1	1	STM3602		putative re	STY4201
4646	CHIP3221	STM specil	1	0	STM3277		putative inner membra	
4647	CHIP0983	STM/STY	1	1	STM4457		putative tra	STY4797
4648	CHIP1015	STM/STY	1	1	STM1379	orf48	putative an	STY1743
4649	CHIP1031	STM/STY	1	1	STM4293	yjdB	putative int	STY4492
4650	CHIP1047	STM/STY	1	1	STM1169	mviM	putative vir	STY1207
4651	CHIP0753	STM/STY	1	1	STM2458	eutB	ethanolami	STY2695
4652	CHIP1820	STM/STY	1	1	STM4028	yihZ	D-Tyr-tRN/	STY3850
4653	CHIP1852	STM/STY	1	1	STM0633	lipA	lipoate syn	STY0683
4654	CHIP0578	STM/STY	1	1	STM1420	ssaS	Secretion $\epsilon$	STY1700
4655	CHIP0594	STM/STY	1	1	STM2035	cbiA	synthesis c	STY2240
4656	CHIP0610	STM/STY	1	1	STM3699	cysE	serine acet	STY4096
4657	CHIP1831	STM/STY	1	1	STM0811	ybhN	putative ne	STY0846
4658	CHIP1863	STM/STY	1	1	STM0783	modC	ABC super	STY0816
4659	CHIP0581	STM/STY	1	1	STM1378	pykF	pyruvate ki	STY1744
4660	CHIP0693	STM/STY	1	1	STM2351	hisP	ABC super	STY2581
4661	CHIP0621	STM/STY	1	1	STM0113	leuA	2-isopropyl	STY0132
4662	CHIP0637	STM/STY	1	1	STM0209	htrA	periplasmic	STY0231
4663	CHIP0688	STM/STY	1	1	STM0451	hupB	DNA-bindir	STY0493
4664	CHIP0624	STM/STY	1	1	STM3409	trkA	Trk system	STY4388
4665	CHIP0736	STM/STY	1	1	STM2881	iacP	putative ac	STY3004
4666	CHIP0760	STM/STY	1	1	STM0546	fimD	outer mem	STY0593
4667	CHIP1835	STM/STY	1	1	STM0729	abrB	putative tra	STY0772
4668	CHIP1867	STM/STY	1	1	STM0739	sucD	succinyl-C $\alpha$	STY0782
4669	CHIP0131	STM/STY	1	1	STM4174	hydG	response r	STY3711

4670	CHIP0147	STM/STY	1	1	STM3593	yhiQ	putative SA	STY4210
4671	CHIP0179	STM/STY	1	1	STM2040	pduC	Propanedic	STY2245
4672	CHIP0395	STM/STY	1	0	STM2883	sipD	cell invasion	protein
4673	CHIP0411	STM/STY	1	1	STM2322	nuoH	NADH deh	STY2552
4674	CHIP1270	STM/STY	1	1	STM3364	yhcP	putative inr	STY3545
4675	CHIP0437	STM/STY	0	0				STY4452
4676	CHIP1288	STM/STY	1	1	STM2669	tyrA	bifunctiona	STY2856
4677	CHIP0477	STM/STY	1	1	STM1140	csgF	curli produ	STY1177
4678	CHIP0110	STM/STY	1	1	STM4024	yihV	putative su	STY3854
4679	CHIP0126	STM/STY	1	1	STM4169	yjaG	putative cyf	STY3716
4680	CHIP4733	STM/STY	1	1	STM2846	hycH	processing	STY2968
4681	CHIP0144	STM/STY	1	1	STM4017	yihO	putative Gf	STY3861
4682	CHIP0160	STM/STY	1	1	STM0670	miaB	methylthiol	STY0716
4683	CHIP4375	STM/STY	1	1	STM0456	ybaE	putative AE	STY0498
4684	CHIP1235	STM/STY	1	1	STM4277	nrfA	nitrite redu	STY4475
4685	CHIP1259	STM/STY	1	1	STM1669		homology t	STY1395
4686	CHIP1275	STM/STY	1	1	STM3383	prmA	methylator	STY3563
4687	CHIP1741	STM/STY	1	1	STM2988	mltA	membrane	STY3128
4688	CHIP1757	STM/STY	1	1	STM2916	ygbL	putative fuc	STY3041
4689	CHIP1781	STM/STY	1	1	STM4058	cpxA	sensory kir	STY3813
4690	CHIP0512	STM/STY	1	1	STM0864	deoR	transcriptio	STY0897
4691	CHIP0043	STM/STY	1	1	STM3943	cyaY	putative Fr	STY3616
4692	CHIP0075	STM/STY	1	1	STM3904	ilvD	dihydroxya	STY3653
4693	CHIP1401	STM/STY	1	1	STM0073	caiA	putative ac	STY0083
4694	CHIP0077	STM/STY	1	1	STM3902	ilvM	acetolactat	STY3655
4695	CHIP3102	STM/STY	1	0	STM2524	yfgA	paral putati	STY2769
4696	CHIP1712	STM/STY	1	1	STM1814	minC	cell divisior	STY1944
4697	CHIP1728	STM/STY	1	1	STM1730	yciE	putative cyf	STY1321
4698	CHIP1744	STM/STY	1	1	STM2974	fucA	L-fucose-	STY3113
4699	CHIP1770	STM/STY	1	1	STM2936	iap	aminopepti	STY3061
4700	CHIP0024	STM/STY	0	0	STM3963	yigM	paral putati	STY3596
4701	CHIP0048	STM/STY	1	1	STM3938	hemC	porphobilin	STY3621
4702	CHIP0088	STM/STY	1	1	STM4147	secE	preprotein	STY3738
4703	CHIP1707	STM/STY	1	1	STM1826	sdaA	L-serine de	STY1956
4704	CHIP1723	STM/STY	1	1	STM1771	chaA	CaCA fami	STY1281
4705	CHIP2873	STM/STY	1	1	STM1781	yhcM	putative Su	STY1907
4706	CHIP2897	STM/STY	1	1	STM1832	manZ	Sugar Spe	STY1961
4707	CHIP2921	STM/STY	1	1	STM1874		putative inr	STY2080
4708	CHIP2937	STM/STY	1	1	STM1901	aspS	aspartate t	STY2109
4709	CHIP4410	STM/STY	1	1	STM0518	gip	glyoxylate	STY0566
4710	CHIP4426	STM/STY	1	0	STM0540	ybcI	putative m	STY0586
4711	CHIP4436	STM/STY	1	0	STM0567		putative AT	STY0615
4712	CHIP1192	STM/STY	1	1	STM1584	ansP	APC family	STY1481
4713	CHIP1216	STM/STY	1	1	STM1618		putative tra	STY1446
4714	CHIP2764	STM/STY	1	0	STM1558		putative gly	STY1505
4715	CHIP2884	STM/STY	1	1	STM1803	dadA	D-amino ac	STY1931
4716	CHIP2804	STM specil	1	0	STM1627		alcohol dehydrogenase	
4717	CHIP2814	STM/STY	1	0	STM1639	cybB	cytochrom	STY1431
4718	CHIP2830	STM/STY	1	1	STM1667		putative thi	STY1397
4719	CHIP2846	STM/STY	1	1	STM1703	yciR	putative PA	STY1349
4720	CHIP1147	STM/STY	1	1	STM0626	dpiA	response r	STY0675
4721	CHIP1163	STM/STY	1	1	STM0985	lpxK	tetraacyldis	STY0986

4722	CHIP1179	STM/STY	1	1	STM0963	serS	serine tRN, STY0961
4723	CHIP4257	STM/STY	1	1	STM3098		putative tra STY3251
4724	CHIP4377	STM/STY	1	1	STM0458		putative cy: STY0501
4725	CHIP2473	STM/STY	1	0	STM3598		putative L-: STY4203
4726	CHIP4609	STM/STY	1	1	STM3048	ygfZ	putative an STY3204
4727	CHIP2513	STM/STY	1	1	STM3684	yibF	putative glt STY4112
4728	CHIP2537	STM/STY	1	0	STM3755	rhuM	putative cytoplasmic pr
4729	CHIP4659	STM/STY	1	1	STM3178	ygiY	putative se STY3355
4730	CHIP4308	STM/STY	1	1	STM2684	recN	protein use STY2870
4731	CHIP4236	STM/STY	1	0	STM3046	ygfX	putative inr STY3202
4732	CHIP4268	STM specil	1	0	STM3122		putative arylsulfatase
4733	CHIP2468	STM/STY	1	1	STM3585	yhhJ	putative AE STY4225
4734	CHIP2484	STM/STY	1	1	STM3622	yhjS	putative cy: STY4178
4735	CHIP2534	STM/STY	1	1	STM3747	yicE	putative NC STY4046
4736	CHIP4303	STM/STY	1	1	STM2672	yfiN	putative diç STY2859
4737	CHIP4319	STM/STY	1	0	STM2702		Fels-2 proç STY4608
4738	CHIP4255	STM/STY	1	1	STM3090	metK	methionine STY3243
4739	CHIP4367	STM/STY	1	1	STM0444	ampG	MFS family STY0486
4740	CHIP2471	STM specil	1	0	STM3595		putative phosphatase
4741	CHIP4553	STM/STY	1	1	STM2127	yegN	paral putati STY2340
4742	CHIP4569	STM/STY	1	1	STM2171	yohF	putative ox STY2401
4743	CHIP1901	STM/STY	1	1	STM3413	yhdN	putative cy: STY4385
4744	CHIP1925	STM/STY	1	1	STM0942	ybjZ	putative AE STY0938
4745	CHIP1949	STM/STY	1	1	STM4388	sgaE	putative L-ı STY4744
4746	CHIP1965	STM/STY	1	1	STM4479	yjgP	putative pe STY4817
4747	CHIP1927	STM/STY	1	1	STM0931	ybjR	putative an STY0927
4748	CHIP1943	STM/STY	1	1	STM4367	yjeB	putative ne STY4724
4749	CHIP2151	STM/STY	1	1	STM3245	tdcA	transcriptio STY3428
4750	CHIP2167	STM/STY	1	1	STM3147	hybC	hydrogena: STY3318
4751	CHIP1608	STM/STY	1	1	STM2834	slrB	PTS family STY2955
4752	CHIP1624	STM/STY	1	1	STM2842	hypF	hydrogena: STY2964
4753	CHIP4486	STM specil	1	0	STM0354		putative transcriptional
4754	CHIP1626	STM/STY	1	1	STM2848	hycF	hydrogena: STY2970
4755	CHIP1650	STM/STY	1	1	STM2224	rplY	50S riboso STY2461
4756	CHIP1666	STM/STY	1	1	STM2110	wcaF	putative ac STY2322
4757	CHIP1682	STM/STY	1	1	STM2199	cirA	outer mem STY2434
4758	CHIP1698	STM/STY	1	1	STM1772	kdsA	3-deoxy-D- STY1897
4759	CHIP2252	STM/STY	1	1	STM3094	yggJ	putative cy: STY3247
4760	CHIP3328	STM/STY	1	1	STM0718		putative cy: STY0758
4761	CHIP3376	STM/STY	1	1	STM0798	uvrB	UvrB with l STY0831
4762	CHIP3416	STM specil	1	0	STM0857		putative acyl-CoA dehy
4763	CHIP2197	STM/STY	1	1	STM3324	ptsO	NPr, phosç STY3503
4764	CHIP0330	STM/STY	1	1	STM3761	slsA	putative inr STY4025
4765	CHIP3403	STM/STY	1	1	STM0838	ybiT	putative AT STY0879
4766	CHIP2192	STM/STY	1	1	STM3348	degQ	serine endç STY3528
4767	CHIP2208	STM/STY	1	1	STM3260		PTS family STY3443
4768	CHIP2232	STM/STY	1	1	STM3193		putative thi STY3371
4769	CHIP0373	STM/STY	1	1	STM2266	apbE	putative thi STY2492
4770	CHIP3340	STM/STY	1	1	STM0744	ybgC	putative es STY0790
4771	CHIP2203	STM/STY	1	1	STM3300	dacB	D-alanyl-D- STY3479
4772	CHIP2219	STM/STY	1	1	STM3229	yqjD	putative inr STY3409
4773	CHIP0352	STM/STY	1	1	STM3649	cspA	major cold STY4153

4774	CHIP2259	STM/STY	1	1	STM3071	putative Df	STY3229	
4775	CHIP3335	STM/STY	1	0	STM0731	putative inr	STY0774	
4776	CHIP3367	STM/STY	1	1	STM0789	hutC	histidine uti	STY0822
4777	CHIP0485	STM/STY	1	1	STM0741	cydB	cytochromc	STY0787
4778	CHIP0495	STM/STY	1	1	STM3728	rpmB	50S riboso	STY4066
4779	CHIP0535	STM/STY	1	1	STM2872	prgJ	cell invasio	STY2993
4780	CHIP0560	STM/STY	1	1	STM1413	ssaM	Secretion s	STY1707
4781	CHIP1691	STM/STY	1	1	STM1823	yoaH	putative cyf	STY1953
4782	CHIP4435	STM/STY	1	1	STM0565		putative pe	STY0613
4783	CHIP0966	STM/STY	1	0	STM4158		putative cytoplasmic pr	
4784	CHIP0984	STM/STY	1	1	STM1389	orf319	putative inr	STY1731
4785	CHIP2124	STM/STY	1	1	STM3507	yhgG	putative cyf	STY4289
4786	CHIP0089	STM/STY	1	1	STM4148	nusG	componentI	STY3737
4787	CHIP0082	STM/STY	1	1	STM3897	yifA	putative tra	STY3708
4788	CHIP0008	STM/STY	1	1	STM3980		putative ou	STY3579
4789	CHIP1209	STM/STY	0	0				
4790	CHIP1193	STM/STY	1	1	STM1590	yncA	putative ac	STY1475
4791	CHIP0903	STM/STY	1	1	STM0102	araA	L-arabinosi	STY0119
4792	CHIP3968	STM/STY	1	0	STM1465	malX	pseudogen	STY1657
4793	CHIP4690	STM/STY	1	1	STM1248		pseudogen	STY1876
4794	CHIP4740	STM/STY	1	1	STM2880		putative cyf	STY3003
4795	CHIP4091	STM/STY	1	1	STM2796	yqaE	putative Yq	STY2916
4796	CHIP4331	STM/STY	1	1	STM0114	leuL	leu operon	STY0133
4797	CHIP4318	STM/STY	1	0	STM2698		Fels-2 proq	STY4604
4798	CHIP4497	STM/STY	1	0	STM0707		putative outer membra	
4799	CHIP2743	STM/STY	0	0	STM1529		putative inner membra	
4800	CHIP4515	STM/STY	1	1	STM3797	ivbL	ilvB operon	STY3985
4801	CHIP3226	STM/STY	1	1	STM3288	yhbC	putative cyf	STY3469
4802	CHIP3230	STM/STY	1	1	STM3294	mrsA	phosphogl	STY3472
4803	CHIP3515	STM/STY	1	1	STM1022		Gifsy-2 pro	STY1036
4804	CHIP3516	STM specil	1	0	STM1023		Gifsy-2 prophage	
4805	CHIP3479	STM specil	1	0	STM0947		putative integrase prot	
4806	CHIP3339	STM/STY	1	1	STM0743	ybgE	putative inr	STY0789
4807	CHIP1086	STM specil	1	0	PSLT072		putative transglycosyla	
4808	CHIP1118	STM specil	1	0	PSLT110	traX	conjugative transfer: fir	
4809	CHIP1087	STM specil	1	0	PSLT073	traM	conjugative transfer: m	
4810	CHIP0425	STM/STY	1	1	PSLT011	srgA	sdiA-regulz	STY4845
4811	CHIP0427	STM specil	1	0	PSLT009	rcK	resistance to complem	
4812	CHIP0167	STM specil	1	0	PSLT075	traJ	conjugative transfer: re	
4813	CHIP4755	STM/STY	1	0	STM1861		putative cytoplasmic pr	
4814	CHIP4759	STM/STY	0	0				
4815	CHIP4763	STM/STY	1	0	STM1995	ompS1	putative porin	
4816	CHIP4767	STM/STY	0	0				
4817	CHIP4771	STM/STY	0	0				
4818	CHIP4775	STM/STY	1	0	STM2211	yeiP	putative elongation fac	
4819	CHIP4851	STM/STY	0	0				
4820	CHIP4855	STM/STY	0	0				
4821	CHIP4859	STM/STY	0	0				
4822	CHIP4863	STM/STY	0	0				
4823	CHIP4867	STM specil	1	0	STM1046		Gifsy-2 prophage; prot	
4824	CTRL006	none	0	0				
4825	CHIP5120	STY specif	0	1			STY2061	

4826	CHIP5136	STY specif	0	1			STY2077
4827	CHIP5152	STY specif	0	1			STY2356
4828	CHIP5174	STY specif	0	0			STY2885
4829	CHIP4911	STY specif	0	1			STY0115
4830	CHIP4927	STY specif	0	1			STY0312
4831	CHIP5220	STY specif	0	1			STY3644
4832	CHIP5235	STY specif	0	1			STY3672
4833	CHIP5250	STY specif	0	1			STY3688
4834	CHIP5184	STY specif	0	1			STY3066
4835	CHIP4921	STY specif	0	1			STY0296
4836	CHIP4937	STY specif	0	1			STY0345
4837	CHIP5237	STY specif	0	1			STY3674
4838	CHIP5252	STY specif	0	0			STY3690
4839	CHIP5267	STY specif	0	1			STY3922
4840	CHIP5010	STY specif	0	1			STY1367
4841	CHIP5026	STY specif	0	1			STY1601
4842	CHIP5042	STY specif	0	1			STY1618
4843	CHIP5172	STY specif	0	0			STY2883
4844	CHIP5188	STY specif	0	1			STY3070
4845	CHIP5371	STM/STY	0	0			STY4627
4846	CHIP5383	STY specif	0	1			STY4651
4847	CHIP5401	STY specif	0	1			STY4676
4848	CHIP5417	STY specif	0	0			STY4829
4849	CHIP5324	STY specif	0	1			STY4560
4850	CHIP5338	STY specif	0	1			STY4577
4851	CHIP5436	STM/STY	0	1			STY4883
4852	CHIP5375	STM/STY	0	1			STY4635
4853	CHIP5387	STY specif	0	1			STY4656
4854	CHIP5398	STY specif	0	1			STY4673
4855	buffer	none	0	0			
4856	empty	none	0	0			
4857	empty	none	0	0			
4858	empty	none	0	0			
4859	empty	none	0	0			
4860	empty	none	0	0			
4861	CHIP0779	STM/STY	1	1	STM4291	basS	sensory kir STY4490
4862	CHIP2586	STM specif	1	0	STM3844		pseudogene; in-frame
4863	CHIP2602	STM/STY	1	1	STM3874	gidA	associate v STY3904
4864	CHIP0835	STM/STY	1	1	STM3320	rpoN	sigma N (s STY3499
4865	CHIP0851	STM/STY	1	1	STM3181	parE	DNA topois STY3359
4866	CHIP3234	STM/STY	1	1	STM3304	rplU	50S riboso STY3483
4867	CHIP2636	STM/STY	1	1	STM0063	citG2	putative m $\alpha$ STY0072
4868	CHIP2668	STM/STY	1	1	STM0134	lpxC	UDP-3-O- $\alpha$ STY0154
4869	CHIP2684	STM/STY	1	1	STM0167	yacC	putative pe STY0189
4870	CHIP2700	STM/STY	1	1	STM0185	yadB	putative glt STY0210
4871	CHIP2716	STM/STY	1	1	STM0222	cdsA	CDP-diglyc STY0245
4872	CHIP2732	STM/STY	1	0	STM1506	rspB	putative dehydrogenas
4873	CHIP3262	STM/STY	1	1	STM3369	yhdP	paral putati STY3549
4874	CHIP3278	STM/STY	1	1	STM0631	ybeM	putative hy STY0680
4875	CHIP3294	STM specif	1	0	STM0655	ybeR	putative cytoplasmic pr
4876	CHIP3310	STM/STY	1	1	STM0687	ybfM	putative ou STY0725
4877	CHIP3326	STM/STY	1	1	STM0714	ybgL	putative lac STY0754

4878	CHIP0792	STM/STY	1	1	STM2398	pgtC	Phosphogl	STY2635
4879	CHIP4001	STM/STY	1	1	STM2101	wcaK	putative ga	STY2311
4880	CHIP3729	STM specil	1	0	STM4575		putative outer membra	
4881	CHIP3753	STM/STY	1	1	STM0282		putative ou	STY0305
4882	CHIP4065	STM specil	1	0	STM2758		putative phosphotransf	
4883	CHIP4081	STM/STY	1	1	STM2780		homologue	STY2897
4884	CHIP1121	STM specil	1	0	STM1044	sodC	Gifsy-2 prophage: sup	
4885	CHIP3747	STM/STY	1	1	STM0272		putative AT	STY0294
4886	CHIP4059	STM specil	1	0	STM2752		putative PTS enzyme I	
4887	CHIP3787	STM/STY	1	1	STM0335		putative ou	STY0368
4888	CHIP3811	STM/STY	1	1	STM1088	pipB	Pathogenic	STY1117
4889	CHIP2387	STM/STY	1	1	STM3412	zntR	Zn(II)-resp	STY4386
4890	CHIP2403	STM/STY	1	1	STM3465	yhfA	putative inr	STY4332
4891	CHIP3805	STM/STY	1	1	STM1080	yccW	putative S <sup>A</sup>	STY1103
4892	CHIP2381	STM/STY	1	1	STM1502	speG	spermidine	STY1561
4893	CHIP2397	STM/STY	1	1	STM3455	slyD	FKBP-type	STY4343
4894	CHIP2413	STM/STY	1	1	STM3492	yrfD	putative pe	STY4304
4895	CHIP3877	STM/STY	1	1	STM1238	icdA	isocitrate d	STY1278
4896	CHIP3893	STM/STY	1	1	STM1279	yeaM	putative re	STY1839
4897	CHIP2399	STM/STY	1	1	STM3457	kefB	CPA2 fami	STY4341
4898	CHIP3863	STM/STY	1	1	STM1209	ycfO	putative gly	STY1249
4899	CHIP3879	STM/STY	1	1	STM1251		putative m	STY1871
4900	CHIP2455	STM specil	1	0	STM3559	yhhV	putative cytoplasmic pr	
4901	CHIP4104	STM/STY	1	1	STM4045	rhaD	rhamnulos	STY3828
4902	CHIP3552	STM specil	1	0	STM4210		putative methyl-accept	
4903	CHIP4114	STM/STY	1	1	STM4076	ydeZ	putative AE	STY3794
4904	CHIP4130	STM specil	1	0	STM4107	yijF	putative periplasmic pr	
4905	CHIP4154	STM/STY	1	1	STM2860	ygbA	putative cy	STY2982
4906	CHIP4170	STM/STY	1	0	STM2918	ygbJ	3-hydroxyis	STY3043
4907	CHIP3042	STM/STY	1	1	STM2377		putative inr	STY2608
4908	CHIP3058	STM/STY	1	1	STM2410	yfeA	putative Di	STY2651
4909	CHIP3444	STM specil	1	0	STM0900		Fels-1 prophage; putat	
4910	CHIP3084	STM/STY	1	1	STM2485	ypfl	putative ac	STY2723
4911	CHIP3484	STM/STY	1	1	STM0957	cydD	ABC super	STY0955
4912	CHIP3132	STM specil	0	0	STM2588		Gifsy-1 prophage: simi	
4913	CHIP4117	STM/STY	1	1	STM4082	yiiQ	putative pe	STY3788
4914	CHIP3565	STM/STY	1	1	STM4225	yjbH	putative ou	STY4421
4915	CHIP4167	STM/STY	1	1	STM2913		putative pe	STY3038
4916	CHIP4183	STM specil	1	0	STM2938		putative cytoplasmic pr	
4917	CHIP3431	STM/STY	0	0			STY0914	
4918	CHIP3447	STM specil	1	0	STM0903		Fels-1 prophage; putat	
4919	CHIP3463	STM specil	1	0	STM0920		Fels-1 prophage; ail ar	
4920	CHIP3103	STM/STY	1	1	STM2525	yfgB	putative Fe	STY2770
4921	CHIP2357	STM/STY	1	1	STM1364	ydiK	putative pe	STY1759
4922	CHIP2946	STM/STY	1	1	STM1937	tyrP	HAAAP far	STY2145
4923	CHIP2962	STM/STY	1	1	STM1994		putative inr	STY2202
4924	CHIP3658	STM specil	1	0	STM4432		putative thiamine pyro	
4925	CHIP3682	STM specil	1	0	STM4491		putative ATP-depende	
4926	CHIP3698	STM/STY	1	1	STM4516	yjiN	putative inr	STY4873
4927	CHIP3692	STM/STY	1	1	STM4501		putative cy	STY4857
4928	CHIP3036	STM/STY	1	1	STM2366	accD	acetylCoA	STY2597
4929	CHIP2288	STM/STY	1	1	STM1228		putative pe	STY1268

4930	CHIP2304	STM/STY	1	1	STM1336	rplT	50S riboso	STY1775
4931	CHIP0245	STM/STY	1	1	STM2433	crr	PTS family	STY2670
4932	CHIP2344	STM/STY	1	1	STM1278	yeaN	putative Mf	STY1840
4933	CHIP2322	STM/STY	1	1	STM1077	yccT	putative pe	STY1099
4934	CHIP0263	STM/STY	1	1	STM2866	sprB	transcriptio	STY2987
4935	CHIP0279	STM/STY	1	1	STM2269	yojN	putative se	STY2494
4936	CHIP2951	STM/STY	1	1	STM1946	uvrC	UvrC with l	STY2154
4937	CHIP2967	STM specil	1	0	STM2008		putative periplasmic pr	
4938	CHIP2983	STM/STY	1	1	STM2264	alkB	DNA repair	STY2490
4939	CHIP3913	STM/STY	1	1	STM1316	celF	phospho-bi	STY1797
4940	CHIP3937	STM specil	1	0	STM1359	ydiB	putative shikimate 5-de	
4941	CHIP3961	STM/STY	1	0	STM1450	pdxY	pyridoxal kinase 2/pyric	
4942	CHIP3977	STM/STY	1	1	STM1481		putative mε	STY1587
4943	CHIP0570	STM/STY	1	1	STM4232	malM	periplasmic	STY4428
4944	CHIP1421	STM/STY	1	1	STM3825	torT	periplasmic	STY3952
4945	CHIP1327	STM/STY	1	1	STM3804	yidG	putative inr	STY3975
4946	CHIP1351	STM/STY	1	1	STM0216	rpsB	30S riboso	STY0239
4947	CHIP1463	STM/STY	1	1	STM0372	hemB	5-aminolev	STY0404
4948	CHIP1391	STM/STY	1	1	STM0132	ftsA	ATP-bindin	STY0152
4949	CHIP1503	STM/STY	1	1	STM2327	nuoB	NADH deh	STY2557
4950	CHIP0501	STM/STY	1	1	STM1721	trpH	trpR contro	STY1329
4951	CHIP0503	STM/STY	1	1	STM3837	dnaN	DNA polyr	STY3941
4952	CHIP3950	STM/STY	1	1	STM1392	ssrA	Secretion ε	STY1728
4953	CHIP3974	STM/STY	1	0	STM1473	ompN	outer membrane protei	
4954	CHIP0567	STM/STY	1	1	STM0545	fimC	periplasmic	STY0592
4955	CHIP1426	STM/STY	1	1	STM3849	yieE	putative cyf	STY3934
4956	CHIP1442	STM/STY	1	1	STM0356		putative inr	STY0387
4957	CHIP3168	STM/STY	1	1	STM2644	yfiE	putative tra	STY2837
4958	CHIP3192	STM/STY	1	1	STM3215	yqjl	putative tra	STY3393
4959	CHIP2068	STM/STY	1	1	STM3524	glpG	protein of c	STY4279
4960	CHIP0962	STM/STY	1	0	STM4155		putative inner membra	
4961	CHIP0978	STM specil	1	0	STM1055		Gifsy-2 prophage	
4962	CHIP0994	STM specil	0	0	STM2631		Gifsy-1 prophage	
4963	CHIP1575	STM/STY	1	1	STM0593	ybdA	putative PC	STY0637
4964	CHIP1991	STM/STY	1	1	STM4381	yjfQ	putative tra	STY4737
4965	CHIP2007	STM/STY	1	1	STM4477	pepA	aminopepti	STY4816
4966	CHIP3171	STM/STY	1	1	STM2650	yfiP	putative cyf	STY2843
4967	CHIP3187	STM/STY	1	1	STM3202	ygiF	putative cyf	STY3381
4968	CHIP3203	STM/STY	1	1	STM3243	tdcC	HAAAP far	STY3426
4969	CHIP3205	STM/STY	1	1	STM3249	garL	2-Dehydro-	STY3431
4970	CHIP1514	STM/STY	1	1	STM2289		putative 2,-	STY2519
4971	CHIP1538	STM/STY	1	1	STM2496	yfgE	putative AT	STY2737
4972	CHIP1562	STM/STY	1	1	STM0486	recR	putative rec	STY0530
4973	CHIP1578	STM/STY	1	1	STM0472	maa	maltose o-;	STY0515
4974	CHIP1594	STM specil	1	0	STM0573		putative inner membra	
4975	CHIP1796	STM/STY	1	1	STM4007	glnA	glutamine ε	STY3874
4976	CHIP1828	STM/STY	1	1	STM0844	pflE	putative py	STY0883
4977	CHIP1868	STM/STY	1	1	STM0738	sucC	succinyl-Cε	STY0781
4978	CHIP0674	STM/STY	1	1	STM4006	glnL	sensory kir	STY3875
4979	CHIP0690	STM/STY	1	1	STM2354	hisJ	ABC super	STY2584
4980	CHIP0706	STM/STY	1	1	STM0118	fruR	transcriptio	STY0138
4981	CHIP1839	STM/STY	1	1	STM0694	fldA	flavodoxin	STY0732



4982	CHIP1871	STM/STY	1	1	STM0735	sdhB	succinate c	STY0778
4983	CHIP0677	STM/STY	1	1	STM0228	lpxA	UDP-N-acε	STY0251
4984	CHIP0701	STM/STY	1	1	STM2674	trmD	tRNA (guar	STY2861
4985	CHIP0717	STM/STY	1	1	STM4361	hfq	host factor	STY4718
4986	CHIP0733	STM/STY	1	1	STM1777	hemA	glutamyl tR	STY1902
4987	CHIP0600	STM/STY	1	1	STM2500	purN	polyphosph	STY2741
4988	CHIP0720	STM/STY	1	1	STM0846	moeA	molybdoptε	STY0885
4989	CHIP0744	STM specil	1	0	STM1240	envF	putative envelope lipop	
4990	CHIP1811	STM/STY	1	1	STM4062	pfkA	6-phosphol	STY3809
4991	CHIP1843	STM/STY	1	1	STM0664	gltJ	ABC super	STY0709
4992	CHIP1883	STM/STY	1	1	STM3399	yrdA	putative fer	STY4398
4993	CHIP4714	STM/STY	1	1	STM1600		putative inr	STY1464
4994	CHIP4730	STM/STY	0	1	STM2634		putative cyf	STY1013
4995	CHIP0187	STM/STY	1	1	STM2048	pduM	Propanedic	STY2253
4996	CHIP1230	STM/STY	1	1	STM4286	lpxO	putative dic	STY4485
4997	CHIP1246	STM/STY	1	1	STM1949	yecF	putative cyf	STY2157
4998	CHIP0443	STM/STY	0	0				
4999	CHIP1272	STM/STY	1	1	STM3357		putative reε	STY3537
5000	CHIP1296	STM/STY	1	1	STM0010	htgA	positive reε	STY0010
5001	CHIP1312	STM/STY	1	1	STM0003	thrB	homoserinε	STY0003
5002	CHIP4693	STM/STY	1	1	STM1331		putative inr	STY1779a
5003	CHIP4709	STM/STY	1	1	STM1872		putative cyf	STY2078
5004	CHIP3211	STM/STY	1	0	STM3264	yraM	paral putati	STY3447
5005	CHIP4727	STM/STY	1	1	STM2475		putative cyf	STY2712
5006	CHIP3456	STM specil	1	0	STM0913		Fels-1 prophage	
5007	CHIP0392	STM/STY	1	1	STM2188	mgIC	ABC super	STY2421
5008	CHIP0408	STM/STY	1	1	STM0570	apeE	outer mem	STY0619
5009	CHIP0432	STM/STY	1	1	STM0191	fhuA	outer mem	STY0218
5010	CHIP0448	STM/STY	0	0				
5011	CHIP0914	STM/STY	1	1	STM2325	nuoE	NADH deh	STY2555
5012	CHIP1765	STM/STY	1	1	STM3007	ygdR	putative PC	STY3150
5013	CHIP0003	STM/STY	1	1	STM3985	yigZ	putative cyf	STY3575
5014	CHIP0027	STM/STY	1	1	STM3960	rthB	homoserinε	STY3599
5015	CHIP0051	STM/STY	1	1	STM3935	hemY	a late step	STY3624
5016	CHIP0091	STM/STY	1	1	STM4150	rplA	50S riboso	STY3735
5017	CHIP0061	STM/STY	1	1	STM3921	wecC	UDP-N-acε	STY3634
5018	CHIP0085	STM/STY	1	1	STM4137	murB	UDP-N-acε	STY3742
5019	CHIP0869	STM/STY	1	1	STM1972	fiil	flagellum-s	STY2180
5020	CHIP0885	STM/STY	1	1	STM2431	ptsH	PTS family	STY2667
5021	CHIP0901	STM/STY	1	1	STM0104	araC	transcriptio	STY0121
5022	CHIP1752	STM/STY	1	1	STM2952	eno	enolase	STY3081
5023	CHIP1778	STM/STY	1	1	STM4084	fpr	ferredoxin-	STY3786
5024	CHIP0696	STM/STY	1	1	STM2076	hisA	N-(5'-phosε	STY2285
5025	CHIP0056	STM/STY	1	1	STM3926	wzxE	O-antigen t	STY3629
5026	CHIP0096	STM/STY	1	1	STM4166	yjaD	putative N1	STY3719
5027	CHIP0880	STM/STY	1	1	STM0380	ddlA	D-alanine-I	STY0412
5028	CHIP0896	STM/STY	1	1	STM1921	cheA	sensory his	STY2130
5029	CHIP2881	STM/STY	1	1	STM1796	treA	trehalase, ε	STY1924
5030	CHIP2801	STM/STY	1	0	STM1624		putative cyf	STY1440
5031	CHIP2825	STM/STY	1	1	STM1658	ydaL	putative Sn	STY1406
5032	CHIP1126	STM/STY	1	1	STM0887	artJ	ABC super	STY0920
5033	CHIP1150	STM/STY	1	1	STM0619	citG	putative mc	STY0668

5034	CHIP1166	STM/STY	1	1	STM0990	ybcC	putative Kir	STY0992
5035	CHIP1176	STM/STY	1	1	STM3766		putative cyf	STY4020
5036	CHIP4460	STM/STY	1	1	STM0602	ybdH	putative gly	STY0646
5037	CHIP2852	STM/STY	1	1	STM1719	yciL	putative rib	STY1331
5038	CHIP2772	STM/STY	1	0	STM1570	fdnG	putative mc	STY1492
5039	CHIP2892	STM/STY	1	1	STM1821	yoaA	putative Df	STY1951
5040	CHIP2908	STM/STY	1	1	STM1849		putative inr	STY1980
5041	CHIP2918	STM specil	1	0	STM1870		Homology to recE (exc	
5042	CHIP2934	STM/STY	1	1	STM1897	yebB	putative pe	STY2105
5043	CHIP4391	STM/STY	1	1	STM0482	ybaN	putative ph	STY0526
5044	CHIP4415	STM/STY	1	1	STM0524	ybbY	putative tra	STY0572
5045	CHIP4431	STM/STY	1	1	STM0557		putative inr	STY0605
5046	CHIP1187	STM/STY	1	1	STM1575		putative tra	STY1490
5047	CHIP4265	STM specil	1	0	STM3118		putative acetyl-CoA hy	
5048	CHIP4577	STM/STY	0	0	STM2288		putative cyf	STY2518
5049	CHIP4593	STM/STY	1	1	STM2774	iroC	putative AT	STY2891
5050	CHIP2497	STM/STY	1	1	STM3655	glyS	glycine tRN	STY4144
5051	CHIP4633	STM/STY	1	0	STM0747	tolA	tol protein, membrane	
5052	CHIP4657	STM specil	0	0	STM4111		pseudogene; frameshil	
5053	CHIP4292	STM/STY	1	1	STM3175		putative ba	STY3352
5054	CHIP4220	STM/STY	1	1	STM3013	lysA	diaminopir	STY3157
5055	CHIP4244	STM/STY	1	1	STM3078	speB	agmatinas	STY3238
5056	CHIP4364	STM specil	1	0	STM0438		putative TPR repeat pr	
5057	CHIP4588	STM/STY	1	1	STM2843	hydN	electron tra	STY2965
5058	CHIP2492	STM/STY	1	1	STM3643	yiaC	putative ac	STY4159
5059	CHIP2542	STM/STY	1	1	STM3770		putative ph	STY4015
5060	CHIP4215	STM/STY	1	1	STM2998	ygdB	putative pe	STY3136
5061	CHIP4231	STM/STY	1	1	STM3030		putative pe	STY3178
5062	CHIP4263	STM/STY	1	1	STM3115	yqgA	putative inr	STY3272
5063	CHIP4279	STM/STY	1	1	STM3145	hybE	putative hy	STY3316
5064	CHIP4591	STM/STY	1	1	STM2721		Fels-2 pro	STY4626
5065	CHIP1677	STM/STY	1	1	STM2163	yehX	putative AE	STY2393
5066	CHIP1693	STM/STY	1	1	STM1819	slp	putative ou	STY1949
5067	CHIP1909	STM/STY	1	1	STM3428	rplE	50S riboso	STY4370
5068	CHIP2117	STM/STY	1	1	STM3550		putative ph	STY4261
5069	CHIP2141	STM/STY	1	1	STM3296	hflB	ATP-deper	STY3474
5070	CHIP2157	STM/STY	1	1	STM3208	gcp	putative O-	STY3387
5071	CHIP2119	STM/STY	1	1	STM3548		putative cyf	STY4263
5072	CHIP2135	STM/STY	1	1	STM3310	yrbC	putative AE	STY3489
5073	CHIP1967	STM/STY	1	1	STM4507	uxuR	transcriptio	STY4862
5074	CHIP1983	STM/STY	1	1	STM4323	dsbD	thiol:disulfk	STY4682
5075	CHIP4492	STM/STY	1	1	STM0374	yaiV	putative inr	STY0406
5076	CHIP1632	STM/STY	1	1	STM2143	yegU	putative gly	STY2372
5077	CHIP1610	STM/STY	1	1	STM2836	gutM	putative glt	STY2957
5078	CHIP1634	STM/STY	1	1	STM2155	metG	methionine	STY2384
5079	CHIP4534	STM/STY	1	1	STM2221	bcr	MFS family	STY2458
5080	CHIP4550	STM/STY	0	0				STY2469
5081	CHIP4566	STM/STY	1	1	STM2168	pbpG	D-alanyl-D-	STY2398
5082	CHIP1898	STM/STY	1	1	STM0259	yafE	putative mc	STY0280
5083	CHIP0369	STM/STY	1	1	STM1407	ssaH	Secretion s	STY1713
5084	CHIP3336	STM/STY	1	1	STM0733	sdhD	succinate c	STY0776
5085	CHIP3384	STM/STY	1	0	STM0810		putative inr	STY0845

5086	CHIP0290	STM/STY	1	1	STM2678	corE	putative cy	STY2865
5087	CHIP2205	STM/STY	0	0				STY3454
5088	CHIP2221	STM/STY	1	1	STM3227	yqjB	putative ou	STY3407
5089	CHIP3411	STM/STY	1	1	STM0851	yliD	putative AE	STY0890
5090	CHIP0309	STM/STY	1	1	STM1385	ttrB	Tetrathion	STY1736
5091	CHIP2216	STM/STY	1	1	STM3233	yqjG	putative glt	STY3413
5092	CHIP2240	STM/STY	1	1	STM3155		putative cy	STY3328
5093	CHIP2264	STM/STY	1	0	STM3045	fldB	flavodoxin	STY3201
5094	CHIP3348	STM/STY	1	1	STM0760	aroG	3-deoxy-D-	STY0801
5095	CHIP0320	STM/STY	1	1	STM1183	flgK	flagellar bic	STY1222
5096	CHIP0336	STM/STY	1	1	STM1915	cheZ	chemotacti	STY2124
5097	CHIP2243	STM/STY	1	1	STM3129		putative N/	STY3298
5098	CHIP0376	STM/STY	1	1	STM1113	scsA	Suppressic	STY1149
5099	CHIP3343	STM/STY	1	1	STM0749	pal	tol protein	STY0795
5100	CHIP3375	STM/STY	1	1	STM0796	bioC	biotin biosy	STY0829
5101	CHIP1576	STM/STY	1	1	STM0599	ybdB	putative pr	STY0643
5102	CHIP1530	STM/STY	1	1	STM2537	yfhJ	believed to	STY2783
5103	CHIP1555	STM/STY	1	1	STM2481	acrD	RND family	STY2719
5104	CHIP1620	STM/STY	1	1	STM2826	csrA	carbon sto	STY2947
5105	CHIP3528	STM specil	1	0	STM1037		Gifsy-2 prophage; prot	
5106	CHIP3560	STM specil	1	0	STM4219		putative cytoplasmic pr	
5107	CHIP2081	STM/STY	1	1	STM3741	rpoZ	RNA polymr	STY4051
5108	CHIP2092	STM/STY	1	1	STM3686	mtlD	mannitol-1-	STY4110
5109	CHIP3574	STM/STY	1	1	STM4252		putative inr	STY4448
5110	CHIP3551	STM specil	1	0	STM4209		putative inner membra	
5111	CHIP4025	STM/STY	1	1	STM2139		putative inr	STY2367
5112	CHIP4042	STM specil	1	0	STM2733		Fels-2 prophage: simil	
5113	CHIP2483	STM/STY	1	1	STM3621	yhjR	putative cy	STY4179
5114	CHIP3748	STM/STY	1	1	STM0273		putative cy	STY0297
5115	CHIP3928	STM specil	1	0	STM1350	ydiD	homologue of a plant p	
5116	CHIP1592	STM/STY	1	1	STM0563		putative tra	STY0611
5117	CHIP3940	STM specil	1	0	STM1362	ydiL	putative cytoplasmic pr	
5118	CHIP1170	STM/STY	1	1	STM1563	osmC	putative re	STY1497
5119	CHIP2629	STM/STY	1	1	STM0044	yaaY	putative cy	STY0053
5120	CHIP2574	STM specil	1	0	STM3829	dgoK	2-oxo-3-deoxygalacton	
5121	CHIP2567	STM/STY	1	1	STM3820		putative cy	STY3958
5122	CHIP2656	STM/STY	1	0	STM0099		putative inner membra	
5123	CHIP4506	STM specil	1	0	STM1794		putative periplasmic pr	
5124	CHIP3112	STM/STY	1	1	STM2542	nifU	NifU homol	STY2788
5125	CHIP3213	STM/STY	1	1	STM3266	yraO	putative ph	STY3449
5126	CHIP3151	STM specil	1	0	STM2607		Gifsy-1 prophage: simi	
5127	CHIP3428	STM/STY	1	1	STM0875	rimK	ribosomal	STY0908
5128	CHIP3477	STM/STY	1	1	STM0943	cspD	similar to C	STY0940
5129	CHIP3511	STM/STY	1	1	STM1006		Gifsy-2 pro	STY1012
5130	CHIP3379	STM/STY	1	1	STM0805	moaD	molybdopt	STY0839
5131	CHIP1094	STM specil	1	0	PSLT085	traR	conjugative transfer	
5132	CHIP1055	STM specil	0	0	PSLT021		pseudogene; two fram	
5133	CHIP1103	STM specil	1	0	PSLT094	trbC	conjugative transfer: as	
5134	CHIP0170	STM specil	1	0	PSLT078	traL	conjugative transfer: as	
5135	CHIP0420	STM specil	1	0	PSLT016	pefD	plasmid-encoded fimbr	
5136	CHIP0423	STM specil	1	0	PSLT015	orf5	putative outer membra	
5137	CHIP4756	STM specil	1	0	PSLT066	ssbB	single-strand binding p	

5138	CHIP4760	STM/STY	0	0				
5139	CHIP4764	STM/STY	0	0				
5140	CHIP4768	STM/STY	0	0				
5141	CHIP4772	STM/STY	0	0	STM0252	rrlH	23S rRNA	
5142	CHIP4776	STM specif	1	0	STM0292		putative RHS-family pr	
5143	CHIP4852	STM/STY	0	0				
5144	CHIP4856	STM specif	0	0				
5145	CHIP4860	STM specif	0	0				
5146	CHIP4864	STM specif	0	0				
5147	CTRL003	none	0	0				
5148	CTRL002	none	0	0				
5149	CHIP5210	STY specif	0	1			STY3343	
5150	CHIP5226	STY specif	0	1			STY3662	
5151	CHIP5160	STY specif	0	1			STY2629	
5152	CHIP5263	STY specif	0	1			STY3844	
5153	CHIP5006	STY specif	0	1			STY1359	
5154	CHIP5022	STY specif	0	1			STY1597	
5155	CHIP5138	STM/STY	0	1			STY2167	
5156	CHIP5154	STY specif	0	1			STY2358	
5157	CHIP5257	STY specif	0	0				
5158	CHIP5273	STY specif	0	1			STY4039	
5159	CHIP5016	STY specif	0	1			STY1591	
5160	CHIP5032	STY specif	0	1			STY1608	
5161	CHIP5156	STY specif	0	1			STY2362	
5162	CHIP5170	STY specif	0	1			STY2880	
5163	CHIP5186	STY specif	0	1			STY3068	
5164	CHIP4923	STY specif	0	1			STY0301	
5165	CHIP4939	STY specif	0	1			STY0347	
5166	CHIP4955	STY specif	0	1			STY1015	
5167	CHIP5261	STY specif	0	1			STY3763	
5168	CHIP5276	STM/STY	1	1	STM3689	yibL	putative cyf	STY4107
5169	CHIP5289	STM/STY	0	0				
5170	CHIP5305	STY specif	0	1			STY4530	
5171	CHIP5326	STY specif	0	1			STY4564	
5172	CHIP5342	STY specif	0	1			STY4582	
5173	CHIP5405	STY specif	0	1			STY4706	
5174	CHIP5346	STY specif	0	1			STY4586	
5175	CHIP5281	STM/STY	0	1			STY4162	
5176	CHIP5294	STY specif	0	1			STY4415	
5177	CHIP5310	STY specif	0	1			STY4540	
5178	CHIP5406	STY specif	0	1			STY4755	
5179	buffer	none	0	0				
5180	empty	none	0	0				
5181	empty	none	0	0				
5182	empty	none	0	0				
5183	empty	none	0	0				
5184	empty	none	0	0				

r a 100bp window & > 90% sequence identity over the entire amplified fragment - with no other gene me  
ent.

GENE	Description	MEDIANS	STD_DEV	THRESHO	MEDIAN_L	STD_DEV	THRESHO	MEDIAN_C
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
fliE	flagellar ho	0.98	0.11	1	0.87	0.14	1	0.77
sufI	SufI proteir	0.91	0.05	1	1.11	0.21	1	1.19
cbiQ	putative co	1.12	0.07	1	0.86	0.13	1	0.75
kefC	glutathione	0.93	0.03	1	1.07	0.1	1	0.84
guaC	GMP reduc	0.97	0.09	1	1.04	0.1	1	0.93
murG	UDP-N-acē	0.91	0.06	1	1.13	0.42	1	0.89
kdgT	2-keto-3-de	0.95	0.05	1	1.07	0.14	1	0.87
folK	2-amino-4-	0.82	0.14	1	1.06	0.1	1	0.88
map	methionine	0.93	0.13	1	1.05	0.21	1	1.03
abc	putative AE	0.77	0.06	1	1.07	0.2	1	1.01
	putative AT	0.7	0.16	1	1	10.68	0	0.79
nagE	pts system	1	0.08	1	0.99	0.12	1	0.78
	conserved	1.05	0.12	1	1.03	0.18	1	0.84
mgtA	Mg(2+) tra	0.87	0.06	1	1.13	0.14	1	1.18
cbiD	CbiD protei	0.95	0.07	1	0.89	0.07	1	0.8
umuD	UmuD prot	0.96	0.08	1	0.76	0.2	1	0.87
pncB	nicotinate p	0.89	0.09	1	0.9	0.07	1	0.79
yidC	putative me	1.02	0.07	1	1.1	0.16	1	0.98
atpA	ATP synthā	0.91	0.06	1	1.06	0.89	1	0.89
	hypothetica	0.97	0.08	1	1.07	0.47	1	0.99
		0.86	0.06	1	1.16	0.14	1	1.02
codA	cytosine de	0.12	0.03	1	0.98	0.17	1	0.74
rnG	ribonucleas	0.99	0.37	0	1.49	0.44	0	1.34
hpaC	4-hydroxyp	0.91	0.02	1	0.89	0.1	1	0.8
	conserved	1.08	0.15	1	1.05	0.42	1	0.78
	conserved	1.03	0.03	1	0.83	0.41	1	0.77
	putative co	0.91	0.13	1	1.22	0.18	1	1.23
	inate synthetase	0.13	0.03	1	1.26	0.13	1	n/a
ftsY	cell divisior	1.05	0.11	1	1.27	0.21	1	1.22
	ne lipoprotein	0.21	0.11	1	0.84	0.98	1	n/a
malT	MalT reguli	0.89	0.07	1	1.23	0.25	1	1.18
glgP	glycogen p	1.02	0.1	1	1.2	0.24	1	1.21
	putative me	1.16	0.18	1	1.36	0.2	1	1.04
deoA	thymidine p	0.92	0.07	1	1.16	0.08	1	1.05
	probable cā	0.51	0.11	1	1.1	0.18	1	1.14
ugpA	glycerol-3-p	0.92	0.06	1	1.16	0.75	1	1.13
	conserved	0.89	0.19	1	1.16	0.24	1	1.18
creB	putative twi	0.91	0.08	1	1.21	0.15	1	1.2
cl	phage repr	0.88	0.07	1	1.2	0.49	1	1.17
	osphate synthase	0.1	0.08	1	1.04	0.09	1	n/a

iroE	putative ex	0.95	0.09	1	1.14	0.11	1	1.14
	hypothetica	0.89	0.12	1	1.19	0.13	1	1.34
hypE	hydrogena	0.95	0.14	1	1.2	0.12	1	1.15
surE	stationary- $\zeta$	0.98	0.11	1	1.18	0.3	1	1.04
ybjF	hypothetica	0.84	0.08	1	0.98	0.27	1	0.81
		0.2	0.2	1	0.9	0.11	0	n/a
dapA	dihydrodipi	0.91	0.1	1	0.98	0.1	1	0.98
ted	transcriptional regu	0.07	0.05	1	0.81	0.07	1	n/a
		0.87	0.07	1	0.98	0.08	n/a	0.91
ne	protein	1.24	0.22	1	0.95	0.32	0	n/a
ycaI	putative co	1.02	0.11	1	0.91	0.1	1	0.72
		0.07	0.03	1	0.83	0.13	1	n/a
	putative AE	1.1	0.18	1	1.26	0.16	1	1.34
ppc	phosphoen	0.88	0.04	1	1.24	0.16	1	1.32
	putative me	1.2	0.15	1	1.06	0.15	1	1.07
potF	putrescine-	1.01	0.05	1	0.94	0.13	1	0.75
		0.06	0.01	1	0.88	0.12	1	n/a
gcpE	GcpE prote	0.92	0.07	1	0.97	0.17	1	1.03
	putative ex	0.86	0.11	1	0.96	0.09	1	0.95
ycaJ	conserved	0.91	0.07	1	0.85	0.09	1	0.79
	putative tra	1.05	0.09	1	0.9	0.12	1	0.99
dcm	DNA-cytop	1.11	0.32	1	0.76	0.14	1	0.83
rscB	regulator of	1.07	0.09	1	1.1	0.31	1	0.9
	putative me	0.95	0.07	1	1.18	0.76	1	0.97
hpaA	4-hydroxyp	1.12	0.11	1	0.78	0.13	1	0.79
	conserved	1.04	0.09	1	0.98	0.25	1	1
fliA	RNA polym	1.28	0.1	1	0.85	0.14	1	0.74
it		0.19	0.04	1	1.01	0.19	1	n/a
	putative me	1.01	0.1	1	0.8	0.25	1	0.66
	putative tra	0.99	0.11	1	0.71	0.08	1	0.77
yjfc	conserved	0.85	0.11	1	1.29	0.64	1	1.17
sitB	Iron transp	0.91	0.08	1	1.06	0.16	1	1.11
gst	glutathione	1.02	0.11	1	0.64	0.59	1	0.74
	conserved	0.94	0.1	0	0.99	0.24	1	0.86
yeeF	putative an	0.91	0.12	1	0.75	0.09	1	0.81
		1.04	0.09	1	0.92	0.13	n/a	0.9
nuoA	NADH dehy	1.01	0.12	1	0.96	0.07	1	1.02
	hypothetica	1.01	0.06	1	1.09	0.1	1	1.14
		0.22	0.13	1	1.17	0.24	1	n/a
	hypothetica	0.87	0.09	1	1.16	0.13	1	1.26
pdxB	erythronate	1.06	0.07	1	0.92	0.09	1	1
	putative inr	1.04	0.09	1	0.86	0.33	1	0.73
pntA	pyridine nu	1.03	0.1	1	0.67	0.06	1	0.68
pepD	aminoacyl-	0.91	0.13	1	1.18	2.93	1	1.02
	putative tra	1.04	0.08	1	1.14	0.16	1	1.05
dapD	2,3,4,5-tetr	1.06	0.06	1	1.03	0.21	1	0.98
ddlB	D-alanine:L	1.01	0.08	1	1.08	0.06	1	0.83
astC	succinylorn	0.93	0.09	1	0.83	0.75	1	0.76
pheT	phenylalan	1.03	0.13	1	0.82	0.15	1	0.65
fer	flavoprotein	0.07	0.03	1	0.79	0.27	1	n/a
thiD	phosphome	1.02	0.05	1	0.94	0.11	1	0.79
rstB	two compo	0.86	0.05	1	0.78	0.18	1	0.74

ssaQ	putative ty	0.82	0.09	1	0.76	0.1	1	0.74
	putative me	0.99	0.08	1	1.5	0.43	1	1.26
	conserved	1	0.06	1	1.03	0.14	1	0.91
frr	ribosome r	1.01	0.12	1	1.09	0.11	1	1.02
rcaA	colanic aci	0.98	0.06	1	0.91	0.21	1	0.95
	putative arr	0.94	0.04	1	1.02	0.11	1	0.95
nuoM	NADH deh	1.06	0.08	1	0.96	0.18	1	0.91
ppsA	phosphoen	0.98	0.06	1	0.75	0.08	1	0.77
prgK	pathogenic	0.98	0.07	1	1.11	0.34	1	1.14
cysU	sulphate tra	1	0.06	1	1	0.12	1	0.83
	putative me	1.03	0.13	1	1.06	0.11	1	0.81
yihI	conserved	1.19	0.05	1	1.35	0.19	1	1.31
psd	phosphatid	1.01	0.11	1	1.1	2.3	1	1.17
ilar to DNA packaging p		0.19	0.06	1	1.12	0.21	1	n/a
	conserved	1.02	0.07	1	1.17	0.11	1	1.41
ugpE	sn-Glycero	0.89	0.06	1	1.26	0.12	1	1.08
argG	argininosuc	0.72	0.04	1	1.1	0.1	1	1.41
	putative glu	0.96	0.11	1	1.01	0.79	1	0.95
sfbC	ABC transp	1.01	0.08	1	0.88	0.14	1	0.8
ytfB	conserved	1.07	0.13	1	1.29	0.17	1	1.11
	regulatory p	0.97	0.07	1	1.3	0.09	1	1.23
gabP	GabA perr	0.99	0.06	1	1.1	0.21	1	1.22
	probable tra	0.98	0.08	1	1.17	0.06	1	1.14
sthB	putative fir	0.92	0.07	1	1.05	0.1	1	1.27
	putative lipi	1.05	0.12	1	1.27	0.16	1	1.3
onal repressor (DeoR fa		1.06	0.11	1	1.17	0.13	1	n/a
rotein		0.34	0.09	1	1.07	0.14	1	n/a
katG	catalase (h	1.03	0.09	1	1.2	0.06	1	1.17
pabB	para-aminc	1.04	0.06	1	0.83	0.12	1	0.91
fimF	fimbria-like	0.89	0.13	1	0.97	0.19	1	0.91
rbn	ribonucleas	1.05	0.07	1	1.36	0.13	1	1.31
crcB	putative me	1.08	0.1	1	0.95	0.19	1	0.71
fnt	methionyl-t	1	0.12	1	1.1	0.26	1	1.23
pagD	putative ou	0.92	0.06	1	0.99	0.21	1	0.79
yijC	possible Te	0.78	0.07	1	1.4	0.16	1	1.18
citB	citrate utiliz	1.02	0.09	1	0.98	0.09	1	0.84
sdhC	succinate c	0.94	0.07	1	0.91	0.15	1	0.78
serC	phosphose	0.99	0.06	1	0.87	0.09	1	0.77
entD	enterobacti	0.77	0.07	1	1.04	0.09	1	0.94
nirD	nitrite redu	0.83	0.08	1	1.2	0.44	1	1.18
thiE	thiamine-pl	0.5	0.08	1	1.33	0.18	1	1.33
livK	leucine-spe	0.97	0.06	1	1.3	0.14	1	1.19
ft		0.84	0.18	1	1.12	0.33	n/a	1.11
	putative es	1.01	0.08	1	0.9	0.29	1	0.79
flgM	negative re	1.02	0.06	1	1.01	0.38	1	0.75
yhdH	possible ox	1.03	0.11	1	1.22	0.18	1	1.22
	putative se	0.99	0.11	1	1.19	0.18	1	1.14
	putative me	0.92	0.15	1	1.2	0.18	0	0.9
	hypothetica	1.08	0.16	1	0.91	0.23	1	0.82
yihS		0.89	0.13	1	1.34	0.17	1	1.38
oadA	oxaloaceta	0.62	0.07	1	1.15	0.08	n/a	1.12
bfcC		0.89	0.02	1	1.07	0.09	1	1.08

pduG	PduG prote	0.9	0.03	1	0.94	0.12	1	0.88
fumB	fumarate h	0.98	0.06	1	1.18	0.1	1	1.14
otsB	trehalose p	0.9	0.1	1	0.85	0.15 n/a		0.8
ppx	exopolyphc	0.92	0.07	1	0.96	0.15	1	0.98
	putative me	1.09	0.14	1	1.37	0.34	1	0.98
	putative ex	1.02	0.06	1	1.02	0.13	1	1.01
citX2	citx protein	0.96	0.14	1	1.14	0.09	1	0.87
emrD	multidrug r	0.91	0.08	1	1.44	0.14	1	1.23
ubiE	ubiquinone	0.99	0.04	1	1.34	0.15	1	1.26
	conserved	1.12	0.14	1	1.4	0.28	1	1.2
rfbU	putative gly	0.85	0.11	1	0.83	0.05	1	0.88
yfdC	putative me	0.87	0.32	0	1.09	0.41	0	0.73
minE	cell divisor	1.08	0.09	1	1.21	0.3	0	0.94
yciA	putative ac	1.08	0.09	1	0.83	0.19	1	0.74
gcvA	regulatory p	0.91	0.05	1	1.1	0.07	1	1.12
	conserved	1.04	0.12	1	1.03	0.09	1	1.11
	hypothetica	0.93	0.12	1	1.27	0.17	1	1.31
nfnB	oxygen-ins	0.95	0.09	1	0.92	0.15	1	0.86
hslU	heat shock	0.93	0.06	1	1.46	0.17	1	1.34
pduS	putative fer	0.72	0.04	1	0.87	0.13	1	0.88
pIdA	detergent-r	1.01	0.1	1	1.44	0.24	1	1.28
rffT	probable 4-	0.97	0.06	1	1.35	0.19	1	1.09
	conserved	0.86	0.07	1	0.8	0.12	1	0.88
stdC	probable fir	0.85	0.12	1	1.09	0.14	1	1.23
	conserved	0.98	0.07	1	1.13	0.2	1	1.18
phnR	probable re	0.97	0.08	1	0.98	0.11	1	0.94
tatB	sec-indepe	0.99	0.08	1	1.49	0.1	1	1.28
allR	negative re	1.05	0.09	1	1.12	0.09	1	0.88
sin, PTS system		0.13	0.05	1	1.13	0.17	1 n/a	
ykgC	probable p	0.96	0.08	1	1.17	0.26	1	0.83
cstA	carbon stai	1.08	0.1	1	0.98	0.24	1	0.77
	putative ph	1.06	0.07	1	0.83	0.17	1	0.72
	putative tra	0.58	0.08	1	0.67	0.19	1	0.62
	putative re	0.99	0.1	1	0.76	0.26	1	0.73
	putative pe	1.06	0.08	1	0.79	0.17	1	0.81
	ABC transp	0.96	0.28	1	0.78	0.19	1	0.69
ruvB	Holliday jur	0.82	0.07	1	0.76	0.14	1	0.88
ybaL	putative tra	0.96	0.04	1	0.96	0.06	1	0.8
dcuC	C4-dicarbo	0.92	0.07	1	0.98	0.09	1	0.81
	putative PT	1.02	0.05	1	1.35	0.1	1	1.34
	putative an	0.87	0.04	1	0.97	0.07	1	0.85
entE	2,3-dihydro	0.88	0.07	1	1.03	0.1	1	0.94
	phage inte	0.84	0.17	1	1.06	0.14	1	1.24
tdk	thymidine k	0.95	0.05	1	0.76	0.18	1	0.73
srfC	putative vir	0.9	0.07	1	0.77	0.07	1	0.79
hrpA	ATP-deper	0.96	0.09	1	0.72	0.07	1	0.77
	putative ex	0.75	0.13	1	0.76	0.16	1	0.75
	hypothetica	0.91	0.3	0	1.25	0.53	0	0.83
clpB	ClpB protei	0.94	0.07	1	1.1	0.11	1	0.99
		0.97	0.07	1	1.16	0.12	1	1.14
	hypothetica	1.01	0.1	1	1.08	0.16	1	0.82
xidase		0.12	0.04	1	1.14	0.14	1 n/a	



ybaO	hypothetica	0.99	0.08	1	1.03	0.09	1	0.89
	conserved	1	0.12	1	1.04	0.21	1	1.27
lldP	L-lactate pe	0.82	0.07	1	1.23	0.13	1	1.27
yidE	putative me	0.98	0.04	1	1.47	0.13	1	1.24
recD	exonucleas	0.91	0.08	1	1.15	0.15	1	1.03
stdB	probable or	0.89	0.07	1	1.1	0.12	1	1.24
	probable pu	0.91	0.04	1	1.01	0.16	1	0.85
yhjH	conserved	1.01	0.04	1	1.24	0.11	1	1.21
	putative ac	1.05	0.07	1	1.29	0.19	1	1.24
selB	selenocyst	0.87	0.06	1	1.39	0.16	1	1.05
radC	putative DN	0.97	0.06	1	1.39	0.07	1	1.38
	putative PT	0.98	0.1	1	1.29	0.22	1	1.26
kdpC	potassium-	1.07	0.12	1	0.91	0.13	1	0.78
	conserved	1	0.08	1	1.16	0.16	1	1.07
emrR	putative tra	1.03	0.1	1	1.12	0.34	1	1.19
baeS	putative tw	0.9	0.07	1	0.9	0.18	1	0.87
yejA	putative tra	1.05	0.09	1	0.88	0.06	1	0.9
	putative gly	0.96	0.06	1	0.86	0.24	1	0.81
yehZ	putative pe	1.01	0.12	1	0.84	0.09	1	1.01
	putative hy	1.05	0.24	0	1.17	0.39	0	0.93
		0.12	0.04	1	0.86	0.13	1	n/a
	FAA-hydrol	0.99	0.03	1	0.86	0.14	1	0.87
	conserved	0.91	0.1	1	0.92	0.03	1	0.82
tag	3-methylad	1.18	0.1	1	1.34	0.19	1	1.32
	putative rib	0.99	0.07	1	1.28	0.1	1	1.18
yalL	conserved	0.95	0.08	1	1.36	0.19	1	1.33
	putative lip	0.96	0.1	1	1.27	0.1	1	1.18
nanA	N-acetylne	0.99	0.06	1	1.09	0.12	1	1.27
	conserved	1.03	0.06	1	1.25	0.15	1	1.15
	hypothetica	1.15	0.08	1	1.19	0.08	1	1.21
hycB	formate hy	0.96	0.21	1	1.13	0.08	1	1.05
	putative me	1.04	0.05	1	1	0.24	1	1.11
sseD	putative pa	1.07	0.08	1	0.71	0.05	1	0.73
scsC	secreted pi	0.98	0.07	1	0.94	0.07	1	0.84
rtter		0.18	0.04	1	0.94	0.11	1	n/a
	transcriptio	0.98	0.32	1	0.93	0.19	1	0.85
ttrR	putative tw	1.06	0.15	1	0.75	0.14	1	0.77
gpmA	phosphogly	0.98	0.05	1	0.93	0.08	1	0.79
	putative inr	0.95	0.04	1	0.81	0.15	1	0.77
ylil	putative ox	0.67	0.05	1	0.86	0.1	1	0.8
	conserved	0.91	0.07	1	1.23	0.16	1	1.37
fliJ	flagellar Fli	1.07	0.08	1	0.82	0.12	1	0.88
	possible tra	0.88	0.02	1	1.17	0.05	1	1.22
ne protein		0.36	0.08	1	0.9	0.42	1	n/a
fer flavoprotein alpha si		0.08	0.02	1	0.94	0.12	1	n/a
nt aldehyde dehydroge		0.04	0.01	1	1.2	0.09	1	n/a
	hypothetica	0.99	0.08	1	1.18	0.14	1	1.1
	hpothetical	0.94	0.08	1	1.05	0.09	1	0.86
rotein		0.12	0.02	1	1.16	0.19	1	n/a
	conserved	1	0.07	1	0.91	0.14	1	0.74
rotein		1.08	0.09	1	1.04	0.16	1	0.9
		0.91	0.15	1	1	0.1	1	0.96

ramA	transcriptio	0.95	0.13	1	1	0.09	1	0.81
	putative mε	0.98	0.05	1	1.03	0.18	1	0.88
	hydrogenas	1.08	0.11	1	0.73	0.07	1	0.76
rotein		0.15	0.04	1	0.94	0.08	1	n/a
ne protein		0.27	0.07	1	0.96	0.07	1	n/a
yfaE	putative fer	0.92	0.12	1	0.99	0.08	1	1
	conserved	1.01	0.08	1	1.28	0.12	1	1.16
	putative ph	0.95	0.07	1	0.84	0.11	1	0.75
ybdQ	conserved	1	0.04	1	0.88	0.19	1	0.84
	putative DN	0.96	0.1	1	1.33	0.19	1	1.21
tdh	threonine 3	0.98	0.1	1	1.36	0.1	1	1.2
	putative PT	1.09	0.06	1	1.39	0.18	1	1.37
hsIS	heat shock	0.95	0.08	1	1.65	0.34	1	1.25
	putative lipi	1.02	0.06	1	1.53	0.35	1	1.18
-inducible protein, rese		0.26	0.06	1	1.19	0.11	1	n/a
stops following codons		1.08	0.11	0	1.27	0.46	0	n/a
cdh		0.83	0.11	0	1.35	0.32	0	1.35
/ oxidative stress		1.04	0.14	0	1.32	0.49	0	n/a
	hypothetica	0.88	0.3	0	1.56	3.19	0	1.03
cle, RNA component		0.91	0.22	1	1.17	0.49	0	n/a
malY		1.23	0.18	0	1.16	0.41	0	0.74
ybiJ	putative ex	0.95	0.05	1	1.03	0.06	1	0.85
	putative hy	0.97	0.06	1	0.94	0.14	1	0.83
	putative lipi	0.91	0.09	1	0.78	0.11	1	0.79
	conserved	0.93	0.04	1	0.93	0.1	1	0.91
		0.03	0.01	1	0.73	0.07	n/a	n/a
ase III epsilon subunit (:		0.06	0.02	1	0.72	0.09	n/a	n/a
riT nicking		0.08	0.02	1	0.73	0.16	n/a	n/a
rotein		0.04	0.03	1	0.76	0.09	n/a	n/a
rotein		0.04	0.01	1	0.71	0.05	n/a	n/a
rotein		0.09	0.02	1	0.72	0.06	n/a	n/a
		0.04	0.01	1	0.67	0.08	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		0.19	0.04	1	1.06	0.14	n/a	n/a
	conserved	1.07	0.07	1	0.9	0.1	1	0.85
		1.11	0.12	1	0.99	0.12	n/a	0.9
		1.04	0.09	1	1.05	0.13	n/a	0.86
		1.07	0.12	1	0.98	0.05	n/a	0.9
		0.99	0.25	1	0.97	0.09	n/a	0.84
		1.17	0.05	1	1.16	0.2	n/a	0.93
	hypothetica	4.18	3.01	1	n/a	n/a	n/a	0.83
tinR	transcriptio	1.01	0.32	0	n/a	n/a	n/a	0.72
betA	bacterioph:	10.66	5.52	1	n/a	n/a	n/a	0.79
	hypothetica	5.05	3.35	1	n/a	n/a	n/a	0.74
	putative ba	17.66	3.18	1	n/a	n/a	n/a	0.75
		1.69	0.23	1	1.01	0.07	n/a	0.9
tolA	tolA proteir	1.06	0.06	1	0.93	0.03	n/a	0.82
		0.6	0.05	1	0.89	0.08	n/a	0.82
	hypothetica	7.49	1.62	1	n/a	n/a	n/a	0.81
	putative ba	18.82	7.9	1	n/a	n/a	n/a	0.77
	hypothetica	16.25	6.18	1	n/a	n/a	n/a	1.12
	conserved	1.33	0.18	1	1.02	0.08	n/a	0.8

	putative me	5.15	2.42	1	n/a	n/a	n/a	0.68
	putative ba	27.73	14.5	1	n/a	n/a	n/a	0.81
	putative ba	22.9	7.11	1	n/a	n/a	n/a	0.68
steE	fimbrial sut	13.36	8.69	1	n/a	n/a	n/a	1.01
	putative ex	7.62	0.83	1	n/a	n/a	n/a	1.15
	putative ba	6.1	0.64	1	n/a	n/a	n/a	0.69
	putative ba	26.13	11.99	1	n/a	n/a	n/a	0.72
	putative ba	15.74	9.3	1	n/a	n/a	n/a	0.75
	hypothetica	9.7	2.01	1	n/a	n/a	n/a	0.82
	putative me	21.28	4.5	1	n/a	n/a	n/a	0.84
	hypothetica	2.24	0.56	0	n/a	n/a	n/a	1.19
sefC	outer mem	12.43	6.8	1	n/a	n/a	n/a	1.07
		1.44	0.15	1		1.03	0.12	n/a
	DNA helica	13.98	6.91	1	n/a	n/a	n/a	1.06
	putative me	7.94	2.54	1	n/a	n/a	n/a	1.15
	protein kin	9.89	7.15	1	n/a	n/a	n/a	1.13
	probable re	1.23	0.32	1	n/a	n/a	n/a	1.12
	putative ex	61.05	10.95	1	n/a	n/a	n/a	1.07
	hypothetica	19.82	5.54	1	n/a	n/a	n/a	1.25
sopE	invasion-as	5.2	2.09	1	n/a	n/a	n/a	1.02
	Putative m	5.85	1.05	1	n/a	n/a	n/a	1.07
	probable pl	14.59	5.91	1	n/a	n/a	n/a	1.06
	putative lip	20.72	3.1	1	n/a	n/a	n/a	1.23
yidR	putative AT	1.01	0.09	1		1.71	0.35	1
yidA	conserved	0.77	0.15	1		1.29	0.2	1
pstB	phosphate	1.03	0.13	1		1.29	0.25	1
uhpA	Two-compr	1.03	0.13	1		1.41	0.18	1
	putative me	1.16	0.13	1		1.25	0.29	1
		0.91	0.1	1		1.22	0.29	1
	conserved	1.07	0.12	1		1.06	0.88	1
	possible m	0.98	0.11	1		1	0.91	1
or for envCD (acrEF) (1		0.27	0.05	1		1.13	0.17	1
	probable pr	1.04	0.66	1		0.89	0.17	1
nagA	N-acetylglu	0.95	0.17	1		0.83	0.23	1
ffinity potassium transp		0.86	0.13	1		0.87	0.15	1
	putative me	1.17	0.08	1		0.64	0.05	1
ar membrane usher pro		0.07	0.04	1		1.17	0.2	1
rnpA	RNase P, p	1.01	0.12	1		1.35	0.21	1
inate 5-dehydrogenase		1.1	0.06	1		1.27	22.44	1
yaal	conserved	0.98	0.16	1		1.13	0.14	1
pagC	outer mem	1.06	0.17	1		0.64	0.19	1
rpoE	RNA polym	0.1	0.01	1		0.96	0.15	1
rbsK	ribokinase	0.99	0.06	1		1.09	0.19	1
caiF	transcriptio	1.06	0.1	1		1.08	0.11	1
ftsI	penicillin-bi	0.93	0.05	1		1.05	0.06	1
yach	putative ex	1.11	0.12	1		1.06	0.18	1
yhdJ	putative ad	1.01	0.14	1		1.4	0.23	1
	putative AE	0.98	0.13	1		0.69	0.25	1
yheL	conserved	1.05	0.16	1		1.11	0.34	1
holB	DNA polym	1.07	0.07	1		0.81	0.34	1
	conserved	0.91	0.13	1		0.99	0.65	1
	putative me	1.1	0.09	1		1	0.3	0

wzxC	putative tra	1.08	0.13	1	0.9	0.1	1	0.83
hofQ	type II secr	0.93	0.06	1	1.1	0.24	1	1.26
	putative m	1.01	0.11	1	1.12	0.31	1	0.76
	hypothetica	1.04	0.15	1	1.25	0.36	0	0.8
manC	mannose-1	1.05	0.19	1	1.05	0.24	1	0.91
	hypothetica	0.98	0.17	1	0.9	0.2	1	0.96
ne protein		0.08	0.12	1	1.07	0.35	1 n/a	
gapA	glyceraldeh	0.97	0.12	1	0.9	0.1	1	0.88
yegE	putative m	1.02	0.07	1	0.85	0.27	1	0.87
mog	molybdopte	0.86	0.13	1	1.12	0.19	1	1.11
	probable se	1.08	0.17	1	1.03	0.28	1	0.9
	conserved	0.98	0.14	1	1.05	0.64	1	0.95
able tail assembly prot		0.08	0.05	1	0.86	0.31 n/a	n/a	
ate lyase II		0.09	0.03	1	1.4	0.23	1 n/a	
	cytochrome	0.89	0.11	1	1.11	0.37	1	0.97
rotein		0.18	0.07	1	0.92	0.16	1 n/a	
	putative m	0.96	0.07	1	0.85	0.12	1	0.92
	conserved	1.09	0.02	1	0.82	0.21	1	0.92
ne protein		0.2	0.13	1	0.95	0.35	0 n/a	
		0.18	0.16	1	0.84	0.28	1 n/a	
		0.1	0.11	1	0.9	0.17 n/a	n/a	
		0.98	0.11	1	1.04	0.21	1	1.03
yfhG	putative m	0.93	0.15	1	0.93	0.18	1	1
ygjM	conserved	1.14	0.17	1	1.15	0.54	0	1.26
ltransferase		0.12	0.05	1	1.2	0.09	1 n/a	
hypA	HypA prote	0.97	0.13	1	1.12	0.24	1	1.14
cysD	ATP sulfur	1	0.09	1	1.09	0.2	1	1.04
ive integrase		0.14	0.04	1	0.85	0.07	1 n/a	
talA	transaldola	0.95	0.15	1	0.84	0.08	1	0.97
trxB	thioredoxin	0.99	0.14	1	0.89	0.12	1	0.81
kdsB	3-deoxy-m	1.02	0.21	1	0.97	0.26	1	0.87
	conserved	0.88	0.15	1	0.86	0.39	1	0.84
ilar to tail assembly pro		0.17	0.03	1	0.97	0.14 n/a	n/a	
ytfK	conserved	1.09	0.14	0	1.19	0.57	0	1.16
glpT	glycerol-3- $\phi$	0.98	0.09	1	0.8	0.21	1	0.89
	putative su	1.06	0.25	0	1.12	0.37	0	0.95
motA	motility pro	1.14	0.11	1	0.76	0.15	1	0.81
dedD	DedD prote	1.11	0.07	1	0.93	0.23	1	0.88
	ABC transp	1.14	0.16	1	0.77	0.17	1	0.74
ribE	riboflavin s	0.99	0.09	1	0.81	0.35	1	0.79
rluB	putative rib	1.09	0.18	1	0.83	0.12	1	0.73
bcfE	fimbrial sut	1.02	0.09	1	1.18	0.27	1	1.22
	conserved	1.01	0.1	1	0.87	0.16	1	0.93
	conserved	1.02	0.08	1	0.79	0.24	0	0.89
rnr	ribonucleas	0.91	0.09	1	1.08	0.1	1	1.09
ytfG	conserved	1.03	0.07	1	1.15	0.12	1	1.09
on factor SsrB, similar		0.09	0.04	1	1.02	0.39	1 n/a	
ermosensitive		0.17	0.04	1	1.14	0.25	1 n/a	
	hypothetica	0.99	0.07	1	1.19	0.23	1	1.19
	putative tra	1.11	0.15	1	0.83	0.16	1	0.87
d factor, vWF type A dc		0.18	0.06	1	0.86	0.24	1 n/a	
	putative m	1.01	0.21	1	0.88	0.14	1	0.88

flhC	flagellar tra	1.04	0.11	1	0.81	0.2	1	0.79
	probable m	1.35	0.2	1	0.98	0.09	1	1.15
	putative co	0.96	0.36	1	1.11	1.03	1	1.01
kgtP	alpha-ketoq	1.08	0.17	1	1.02	0.17	1	1.05
	probable te	1.01	0.09	1	1.06	0.33	1	0.84
cobS	cobalamin	1.15	0.07	1	0.7	0.11	1	0.85
lysC	lysine-sens	1.08	0.18	1	1.25	0.27	1	1.22
gshA	gamma-glu	1.03	0.09	1	1	0.41	1	1.28
		0.09	0.06	1	0.8	0.29	1	n/a
fliP	flagellar bic	0.99	0.06	1	0.94	0.22	1	0.89
prgH	pathogenic	0.92	0.16	1	1.13	0.28	1	1.2
flhA	flagellar bic	1.12	0.13	1	0.8	0.16	1	0.89
rflB	putative rec	1.09	0.19	1	0.84	0.28	1	1
rbsD	high affinity	0.92	0.17	1	1.29	0.25	1	1.37
tsf	elongation	0.94	0.12	1	1.01	0.27	1	0.9
psiF	phosphate	0.94	0.11	1	1.15	0.34	1	1.07
yjbC	putative ps	0.97	0.1	1	1.24	0.09	1	1.3
caiT	probable ca	0.95	0.15	1	0.99	0.11	1	1
	conserved	0.99	0.16	1	0.73	0.12	1	0.81
etoacetyl-CoA transfer		0.07	0.03	1	0.79	0.09	1	n/a
add	adenosine	1.05	0.09	1	0.64	0.72	1	0.74
	conserved	0.45	0.04	1	0.93	0.13	n/a	0.76
	putative ac	1.1	0.11	1	1.08	0.2	1	1.25
folD	Fold bifunc	0.85	0.15	1	1.01	0.28	1	0.97
ilar to phage tail compo		0.28	0.12	1	1.05	0.32	1	n/a
	conserved	0.96	0.12	1	1.14	0.1	1	1.29
secB	protein-exp	1	0.11	1	1.22	0.25	1	1.45
bioH	putative bic	1.06	0.09	1	1.26	0.21	1	1.16
rotein		0.18	0.08	1	1.2	0.13	1	n/a
	putative req	1.11	0.1	1	0.93	0.37	0	0.8
ybbB	hypothetica	1.08	0.13	1	0.94	0.18	1	0.83
ilar to minor tail protein		0.16	0.05	1	0.95	0.19	1	n/a
zyme		0.14	0.1	1	1.06	0.26	n/a	n/a
ytfF	putative me	1.02	0.13	1	1.09	0.1	1	1.23
		0.16	0.04	1	0.75	0.11	n/a	n/a
	conserved	1.02	0.1	1	1.04	0.08	1	1.13
folB	dihydroneo	1.08	0.1	1	1.07	0.33	1	1.08
glgA	glycogen s	1.05	0.13	1	1.13	0.15	1	1.1
	putative me	1.01	0.14	1	1.23	0.28	1	1.42
asrA	anaerobic s	1.06	0.13	1	1.06	0.16	1	1.15
ptsG	PTS system	1.01	0.12	1	0.83	0.14	1	0.78
	ATP/GTP-l	1.06	0.12	1	1.35	0.24	1	1.44
dps	DNA protec	1.05	0.19	1	0.87	0.15	1	0.89
moaA	molybdenu	0.99	0.13	1	0.83	0.87	1	0.85
ssaT	putative typ	1.02	0.18	1	0.65	0.09	1	0.7
yfeG	ethanolami	1.01	0.11	1	0.91	0.16	1	0.96
	putative AE	1.07	0.12	1	1.31	0.13	1	1.41
ybeB	conserved	1.03	0.14	1	1.12	0.17	1	0.91
	hypothetica	0.87	0.1	1	1.21	0.25	1	0.91
hisC	histidinol-pl	0.89	0.08	1	0.83	0.24	1	0.85
sapF	peptide tra	1.01	0.11	1	0.71	0.21	1	0.79
adrA	adrA protei	0.95	0.16	1	1.03	0.18	1	0.86

	hypothetica	1.05	0.07	0	1.24	0.35	0	0.86
ft		0.96	0.12	1	0.9	0.16	1	0.89
ybeZ	PhoH-like /	1.06	0.07	1	0.92	0.09	1	0.83
phnA	conserved	1.05	0.14	1	1.12	0.16	1	1.36
	conserved	0.96	0.09	1	0.69	0.04	1	0.82
	large repeti	0.96	0.19	1	1.16	0.18	1	1.29
waaJ	lipopolysac	0.96	0.16	1	1.54	0.28	1	1.47
sopE2		0.92	0.15	1	0.84	0.12	1	0.83
hemE	uroporphyr	0.84	0.13	1	1.24	0.13	1	1.24
atpG	ATP synthase	1.08	0.11	1	1.28	0.17	1	1.58
ompC	outer mem	1	0.21	1	0.98	0.14	1	0.96
ybhO	putative ph	0.85	0.11	1	0.98	0.21	1	0.87
ybaD		1.06	0.14	1	0.98	0.12	1	0.93
sodA	manganese	1.09	0.1	1	1.15	0.16	1	1.28
phsC	thiosulfate	1.01	0.14	1	0.77	0.08	1	0.78
pspA	phage shock	0.99	0.14	1	0.77	0.32	1	0.8
grpE	heat shock	0.95	0.1	1	1.2	0.26	1	1.07
rpsE	30S ribosom	1.07	0.11	1	1.04	0.24	1	1.17
waaQ	lipopolysac	0.9	0.13	1	1.35	0.09	1	1.35
hemG	protoporph	1.12	0.15	1	1.2	0.19	1	1.17
lepA	GTP-binding	0.91	0.08	1	0.91	0.09	1	0.96
yifL	putative lipi	1.13	0.09	1	1.34	0.15	1	1.29
rho	transcriptio	1.01	0.13	1	1.34	0.16	1	1.24
fliN	flagellar mo	0.99	0.17	1	0.82	0.2	1	0.83
dadX	alanine rac	0.99	0.17	1	0.88	0.2	1	0.82
aroC	chorismate	0.94	0.11	1	0.9	0.08	1	0.91
nuoF	NADH dehyd	0.95	0.09	1	0.89	0.11	1	0.98
pyrE	orotate pho	0.91	0.13	1	1.22	0.28	1	1.41
	probable m	1.95	0.27	1	0.98	0.07	1	1.15
spaP	secretory p	1.05	0.11	1	1.17	0.17	1	1.1
rhaA	L-rhamnos	0.93	0.09	1	1.44	0.23	1	1.41
tatA	sec-indepe	1.02	0.13	1	1.15	0.25	1	1.18
parC	topoisomer	0.83	0.12	1	1.09	0.11	1	1.22
nupC	nucleoside	0.89	0.09	1	0.94	0.13	1	1.01
ilvG	acetolactat	1	0.14	1	1.36	0.19	1	1.22
araD	L-ribulose-5-	0.93	0.07	1	1.04	0.13	1	1.09
cysC	adenosine	1.07	0.13	1	1.07	0.16	1	1.07
	possible de	0.99	0.32	1	1.02	0.09	1	1.14
	conserved	0.95	0.09	1	1.27	0.2	1	1.36
glxK	glycerate k	1.08	0.08	1	0.89	0.1	1	0.69
dmsB	anaerobic c	1.02	0.1	1	0.74	0.06 n/a		0.75
sin, PTS system		0.21	0.13	1	1.09	0.41	1 n/a	
	putative me	1.04	0.12	1	0.82	0.38	1	0.79
topA	DNA topois	1.02	0.16	1	0.8	0.19	1	0.76
heme-N, cytochrome B556		0.28	0.08	1	0.67	0.07	1 n/a	
rnd	ribonucleas	1.03	0.12	1	0.73	0.09	1	0.8
ldhA	D-lactate d	1.02	0.16	1	0.67	0.19	1	0.81
	putative me	0.87	0.14	1	0.76	0.23	1	0.83
	putative tra	0.92	0.2	1	0.72	0.05	1	0.75
ruvA	Holliday jur	0.95	0.09	1	0.84	0.11	1	0.83
purE	phosphorib	0.99	0.11	1	0.96	0.12	1	0.82
	putative tet	0.93	0.17	1	0.89	0.15	1	0.89

	conserved	1.09	0.16	1	0.73	0.07	1	0.82
	hypothetica	0.9	0.11	1	0.66	0.15	1	0.84
	putative rtn	0.95	0.12	1	0.96	0.24	1	0.89
	conserved	0.97	0.18	1	0.82	0.2	1	0.72
	putative be	1.03	0.1	1	0.68	0.12	1	0.76
se protein		0.26	0.12	1	0.81	0.21	1	n/a
ruvC	crossover j	0.93	0.08	1	1	0.21	1	0.93
dsdA	D-serine de	0.96	0.11	1	1.39	0.31	1	1.32
	conserved	1	0.08	1	0.98	0.15	1	1.07
		0.43	0.11	1	0.89	0.14	1	n/a
tein, gntR family		0.13	0.02	1	1.04	0.18	1	n/a
	possible hy	0.95	0.13	1	1.03	0.1	1	1.3
rhIB	putative AT	0.89	0.13	1	1.41	0.2	1	1.37
xylA	D-xylose is	1.05	0.1	1	1.27	0.12	1	1.24
	conserved	1.04	0.13	1	0.89	0.1	1	0.77
	conserved	0.88	0.08	1	1.14	3.5	1	1.17
	conserved	1.01	0.1	1	1	0.12	1	1.03
gcvP	glycine deh	0.82	0.14	1	1.03	0.12	1	1.2
ansB	L-asparagi	1.04	0.11	1	1.2	0.27	1	1.19
murl	glutamate i	1.1	0.15	1	1.3	0.1	1	1.22
	conserved	1.01	0.17	1	1.03	0.22	1	1.14
citT	citrate carri	0.97	0.07	1	0.88	0.11	1	0.76
yeiP		1.06	0.15	1	0.77	0.2	n/a	0.94
	putative tra	1.03	0.08	1	1.02	0.2	1	1.14
pspF	psp operon	1.02	0.14	1	0.8	0.13	1	0.77
	probable is	1.08	0.09	1	1.01	0.21	1	1.34
	RhtC-like tr	1.05	0.09	1	1	0.1	1	0.92
yafP	putative ac	1.05	0.14	1	1.2	0.33	1	1.45
yeiH	putative me	1.12	0.08	1	0.93	0.09	1	0.86
ne protein		0.36	0.08	1	0.87	0.18	1	n/a
yehU	putative tw	0.96	0.12	1	0.78	0.05	1	0.89
yeiG	putative es	1.06	0.16	1	0.97	0.73	1	0.94
wcal	putative gly	1.09	0.11	1	0.94	0.06	1	0.87
yehY	putative pe	0.92	0.1	1	0.88	0.11	1	0.71
lctD	putative L-l	0.94	0.11	1	1.3	0.23	1	1.33
rplC	50S riboso	1	0.11	1	1.2	0.22	1	1.3
amiB	N-acetylm	1	0.12	1	1.25	0.27	1	1.11
rplP	50S riboso	0.99	0.12	1	1.15	0.16	1	1.52
	possible lip	1.18	0.09	1	1.04	0.12	1	1.12
yjFP	conserved	1.03	0.1	1	1.15	0.09	1	1.17
	conserved	0.96	0.18	1	1.13	0.14	1	1.23
yjeK	conserved	0.9	0.07	1	1.06	0.22	1	1.34
yehR	putative lip	1.1	0.13	1	0.78	0.11	1	0.92
Int	apolipoprot	0.93	0.11	1	1	0.23	1	0.85
	conserved	0.95	0.14	1	1.05	0.18	1	1.26
helD	helicase IV	1.06	0.08	1	0.79	0.06	1	0.76
modA	molybdate-	1.02	0.15	1	0.87	0.1	1	0.82
yliB	putative AE	0.97	0.11	1	0.88	0.09	1	0.84
	conserved	1.11	0.11	1	1.21	0.12	1	1.29
ybhC	possible pe	0.99	0.1	1	0.99	0.19	1	0.77
ybiN		0.96	0.08	1	0.96	0.08	1	0.75
gcvH	glycine clea	1.06	0.16	1	1.05	0.13	1	1.29

rnhA	ribonucleas	1.02	0.09	1	1.09	0.17	1	0.98
	possible ox	1.02	0.07	1	1.12	0.13	1	1.34
sseA	putative pa	1.09	0.08	1	0.76	0.14	1	0.83
ybiH	hypothetica	1.07	0.08	1	0.85	0.16	1	0.81
mdfA	multidrug tr	1.05	0.12	1	0.84	0.06	1	0.73
	conserved	1.19	0.11	1	1.06	0.23	1	0.88
rotein		1.11	0.11	1	0.95	0.09	1	n/a
rotein		0.12	0.03	1	1.11	0.04	1	n/a
	hypothetica	1.06	0.1	1	1.03	0.14	1	1.02
	Putative ac	1.59	0.22	0	1.13	0.23	0	1.11
ate protein		0.12	0.03	1	1.18	0.16	1	n/a
	putative ex	1.03	0.1	1	1.13	0.19	1	1.25
ne protein		0.15	0.04	1	1.14	0.2	1	n/a
yjaB	putative ac	1.07	0.15	1	1.2	0.15	1	1.26
cobT	nicotinate-r	1.05	0.19	1	0.76	0.08	1	0.72
rotein		0.09	0.01	1	1.01	0.08	1	n/a
thetical protein		0.46	0.12	1	1.07	0.16	1	n/a
apl	phage regu	1.02	0.11	1	1	0.05	1	1.22
rpsO	30S riboso	0.94	0.2	1	1.11	0.15	1	1.39
	conserved	1.11	0.09	1	1.01	0.13	1	1.21
gatB	PTS syste	1.01	0.13	1	1.06	0.11	1	1.2
	putative me	1.06	0.08	1	0.7	0.14	1	0.77
hyaE2	hydrogena	1.02	0.17	1	0.63	0.03	1	0.68
rimL	ribosomal-p	1.03	0.12	1	0.72	0.09	1	0.75
yhdV	possible lip	1.01	0.12	1	1.13	0.17	1	1.29
fixX	ferredoxin l	0.93	0.14	1	1.06	0.12	1	0.98
		1.18	0.13	1	0.61	0.12	1	0.57
glnB	nitrogen re	1.02	0.14	1	1	0.11	1	1.06
		0.57	0.13	1	0.8	0.08	n/a	0.91
	putative me	1.08	0.13	1	0.89	0.21	1	1.02
rotein		1.09	0.12	1	0.9	0.1	1	n/a
	putative ars	0.99	0.1	1	0.8	0.2	1	0.97
fdx	ferredoxin	1.06	0.14	1	1.07	0.17	1	1.09
		1.13	0.18	1	0.94	0.17	1	0.81
ybeD	conserved	1.04	0.12	1	1	0.04	1	0.9
	putative me	1	0.07	1	0.91	0.12	1	0.86
il protein		0.04	0	1	0.66	0.07	n/a	n/a
rotein		0.04	0.01	1	0.64	0.15	n/a	n/a
ein		0.02	0.01	1	0.71	0.09	n/a	n/a
latory proteins, luxR far		0.37	0.03	1	0.72	0.1	n/a	1.21
	putative ou	0.32	0.08	1	0.63	0.19	n/a	0.9
riae; regulatory		0.2	0.03	1	0.68	0.1	n/a	n/a
rotein		0.14	0.02	1	0.68	0.14	n/a	n/a
ining region		0.16	0.12	1	1.3	1.56	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		0.14	0.04	1	1.04	0.06	n/a	n/a
		1.03	0.16	1	0.97	0.18	n/a	0.9
		1.05	0.09	1	0.94	0.14	n/a	0.91
		1.01	0.13	1	0.99	0.1	n/a	0.87
		1.08	0.25	1	1.19	0.25	n/a	1.03
		1.11	0.12	1	0.91	0.06	n/a	0.71
	putative ex	1.09	0.08	1	0.81	0.12	n/a	0.69



	hypothetica	15.97	1.34	1	n/a	n/a	n/a	0.7
	putative m	9.69	3.71	1	n/a	n/a	n/a	0.7
	hypothetica	11.06	4.3	1	n/a	n/a	n/a	0.68
	hypothetica	1.22	0.25	1	1.34	0.22	n/a	0.9
	putative ba	17.14	10.99	1	n/a	n/a	n/a	0.74
	hypothetica	12.31	2	1	n/a	n/a	n/a	0.75
	conserved	9.69	2.92	1	n/a	n/a	n/a	0.67
	DNA-invert	5.32	2.1	1	n/a	n/a	n/a	0.74
	putative ba	15.86	3.07	1	n/a	n/a	n/a	0.69
	conserved	18.15	5.89	1	n/a	n/a	n/a	0.8
hokW	Similar to c	3.37	1.07	1	n/a	n/a	n/a	0.96
	hypothetica	19.39	8.82	1	n/a	n/a	n/a	0.69
	putative ba	14.62	7.77	1	n/a	n/a	n/a	0.68
	conserved	9.35	4.47	1	n/a	n/a	n/a	0.8
	hypothetica	13.35	4.32	1	n/a	n/a	n/a	0.73
	putative ba	4.6	0.95	1	n/a	n/a	n/a	0.8
	conserved	12.64	2.99	1	n/a	n/a	n/a	0.83
	putative ba	14.79	1.65	1	n/a	n/a	n/a	0.63
	putative pe	6.12	1.96	1	n/a	n/a	n/a	0.81
	putative ba	16.56	3.08	1	n/a	n/a	n/a	0.76
	possible se	12.51	1.56	1	n/a	n/a	n/a	1.07
	putative re	15.5	2.85	1	n/a	n/a	n/a	0.89
rfbV	putative gly	7.5	5.52	1	n/a	n/a	n/a	0.91
	hypothetica	10.71	2.25	1	n/a	n/a	n/a	1.17
	hypothetica	7.11	2.14	1	n/a	n/a	n/a	1.16
vexD	Vi polysacc	20.13	4.87	1	n/a	n/a	n/a	1.07
	putative m	26.71	5.26	1	n/a	n/a	n/a	1.2
	hypothetica	13.81	3.34	1	n/a	n/a	n/a	1.16
	hypothetica	13.89	3.25	1	n/a	n/a	n/a	1.3
	bacterioph	8.65	1.07	1	n/a	n/a	n/a	1.14
	conserved	23.31	12.43	1	n/a	n/a	n/a	1.03
	putative m	1.78	0.18	1	0.95	0.08	n/a	1.1
	hypothetica	31.2	8.89	1	n/a	n/a	n/a	1.02
rci	shufflon-sp	17.74	6.82	1	n/a	n/a	n/a	1.12
	putative ph	16.73	4.59	1	n/a	n/a	n/a	1.09
prfB	peptide cha	1.1	0.11	1	1.08	0.13	n/a	1.29
pgtB	phosphogly	1.35	0.31	0	1.4	0.55	0	1.06
cbiF	precorrin-4	1.16	0.12	1	0.79	0.18	1	0.91
	methyl-acc	0.98	0.13	1	1.13	0.17	1	1.37
murE	UDP-N-ace	0.93	0.09	1	0.99	0.07	1	1.01
acnB	aconitate h	1	0.07	1	1.07	0.14	1	1.02
	putative gl	0.94	0.07	1	0.96	0.15	1	1
		0.19	0.1	1	1.08	0.14	1	n/a
fhuD	ferrichrome	0.94	0.06	1	1.02	0.28	1	0.93
ldcC	lysine deca	0.93	0.09	1	1.17	0.82	1	1
	conserved	1.09	0.07	1	0.9	0.23	0	0.79
		0.2	0.09	1	1.34	0.36	0	n/a
seqA	seqA prote	1	0.09	1	1.08	0.28	1	0.9
yedE	putative m	1	0.14	1	0.82	0.16	1	0.74
waaF	ADP-hepto	0.76	0.05	1	1.23	0.14	1	1.32
cbiL	precorrin-2	1.04	0.08	1	0.84	0.11	1	0.85
trpC	indole-3-gly	1.02	0.06	1	1.07	0.41	0	0.78

	probable se	1.04	0.1	1	1.26	0.22	1	1
phoU	phosphate	0.99	0.13	1	0.95	0.17	1	0.92
	putative ph	1	0.2	1	1	0.29	1	1.23
mutY	A/G-specifi	1.01	0.15	1	1.15	0.4	1	1.33
	putative me	0.95	0.15	1	1.12	0.17	0	1.25
	conserved	1.05	0.15	1	1.17	0.13	1	1.47
tatE	sec-indepe	1.07	0.08	1	0.84	0.16	1	0.8
rotein		0.93	0.14	0	1.05	1.88	0	n/a
	putative lip	1.09	0.11	1	1.18	0.47	0	0.7
hslR	heat shock	0.94	0.03	1	1.22	0.18	0	1.24
pendent regulator of rt		0.11	0.07	1	1.15	0.16	1	n/a
	conserved	0.92	0.05	1	1.24	0.16	1	1.25
mdoB	putative ph	0.96	0.1	1	1.1	0.29	1	1.23
fhuE		0.94	0.08	1	1.05	0.4	1	0.85
ne protein		0.16	0.04	1	1.21	0.22	1	n/a
ine protein		0.91	0.16	1	1.12	0.31	1	1.26
	putative me	1	0.11	1	0.94	0.19	1	1.09
gpmB	probable pl	1	0.13	1	1.12	0.12	1	1.11
rotein		0.42	0.06	0	1.35	0.39	0	n/a
	heavy meta	0.98	0.08	1	1.33	3.04	1	1.35
protein		0.1	0.03	1	0.99	0.11	1	n/a
thetical protein		0.32	0.06	1	1.14	0.21	1	n/a
rotein		0.25	0.27	1	1.4	0.4	0	n/a
		0.14	0.07	1	1.06	0.1	1	n/a
	putative me	1.03	0.07	1	1.02	0.13	1	1.25
yjbO	putative me	1.01	0.16	1	1.08	0.27	1	1.23
adiY	putative Ar	0.93	0.14	1	0.99	0.15	1	1.13
	putative me	0.99	0.05	1	0.96	0.15	1	0.82
		0.35	0.24	0	1.02	0.33	0	n/a
yffH	conserved	0.99	0.14	1	0.91	0.32	1	1.09
rotein		0.32	0.1	1	0.84	0.11	0	n/a
amiA	probable N	0.96	0.08	1	1.06	0.22	1	1.03
hcr	NADH oxid	0.9	0.06	1	1.05	0.32	1	0.76
ycaM	probable tr	0.94	0.03	1	0.72	0.12	1	0.78
mukB	cell divisor	0.9	0.05	1	0.94	0.42	1	0.79
able minor tail protein		0.07	0.04	1	0.81	0.07	n/a	n/a
ftsN	cell divisor	0.86	0.11	1	1.24	0.08	1	1.48
rotein		0.31	0.12	1	1.08	0.18	1	n/a
frdA	fumarate re	1.05	0.15	1	1.17	0.09	1	1.24
xapR	xanthosine	1.09	0.16	1	0.92	0.28	1	1.01
ive minor tail protein		0.08	0.02	1	0.79	0.09	1	n/a
sseA	putative thi	0.88	0.09	1	1.04	0.11	1	1.03
yfhB	putative me	0.98	0.14	1	1.19	0.93	0	0.96
	putative tra	0.98	0.09	1	1.03	0.17	1	0.99
yjeQ	putative me	0.96	0.17	1	1.17	0.22	1	1.28
amn	AMP nucle	0.89	0.08	1	0.91	0.18	1	0.9
nuoN	NADH deh	0.98	0.87	1	0.91	0.18	1	0.9
	putative an	1.01	0.05	1	0.87	0.21	1	1.09
pabC	4-amino-4-	1.09	0.12	1	0.92	0.17	1	0.76
pduV	putative pro	0.82	0.1	1	1.16	0.28	0	0.95
n factor EF-Tu (duplica		0.97	0.05	1	1.12	0.24	n/a	1.34
	putative req	0.99	0.1	1	0.64	0.31	1	0.75

sinR	LysR-family	1.02	0.09	1	1.02	0.21	0	1.09
	putative me	0.92	0.11	1	0.69	0.1	1	0.82
fkIB	probable Fl	1	0.1	1	1.01	0.16	1	1.31
leuO	probable ar	1.05	0.07	1	1.17	0.16	1	1.07
	hypothetica	0.93	0.12	1	1.02	0.4	0	1.04
in amino acid transport		0.17	0.05	1	0.71	0.77	1	n/a
rotein		0.16	0.03	1	1.03	0.13	1	n/a
	putative hy	0.9	0.12	1	0.78	0.12	1	0.94
	putative tra	1.03	0.2	1	0.96	0.72	1	0.94
	putative me	1	0.11	1	1.18	0.16	1	1.1
red in DNA repair		0.06	0.02	1	1.04	0.18	1	n/a
	putative an	1.03	0.07	1	0.89	0.16	1	0.99
	conserved	1.07	0.12	1	1.21	0.45	0	0.88
nlpC	putative lipi	1.05	0.07	1	0.79	0.3	1	0.86
	hypothetica	0.96	0.07	1	1.01	0.34	0	0.74
safC	outer-mem	0.99	0.03	1	0.95	0.12	1	0.9
accA	acetyl-coer	0.91	0.06	1	1.01	0.2	1	0.95
cyoA	cytochrome	1.1	0.07	1	1.02	0.21	1	0.91
aceF	dihydrolipo	0.92	0.05	1	1.05	0.17	1	0.99
	conserved	1.14	0.07	1	0.87	0.24	1	0.89
ansport protein		0.07	0.04	1	0.73	0.19	1	n/a
mig-14	putative tra	1.08	0.14	1	0.87	0.66	1	1.14
	putative me	1.06	0.16	1	0.96	0.84	0	0.88
	putative me	1.03	0.13	1	0.61	0.16	1	0.78
malE	periplasmic	1.04	0.11	1	1.17	0.16	1	1.41
	possible ou	1.09	0.12	1	0.88	0.15	1	1.08
yaiW	putative lipi	1.04	0.13	1	0.97	0.08	1	1.01
secD	protein-exp	1	0.14	1	1.08	0.23	1	1.08
murF	UDP-N-ace	0.92	0.05	1	1.08	0.18	1	1
cvpA	colicin V pr	1.11	0.09	1	1.01	0.23	1	1.06
tctD	transcriptio	0.89	0.03	1	0.91	0.17	1	1.14
	conserved	1.02	0.04	1	0.74	0.16	1	0.83
livG	high-affinity	1.07	0.08	1	1.14	0.17	1	1.28
mdlB	putative AE	0.97	0.03	1	1.02	0.21	1	0.91
pheP	phenylalan	1.02	0.08	1	0.87	0.13	1	0.88
	conserved	0.95	0.1	1	0.7	0.08	n/a	0.95
	putative su	1.05	0.05	1	1.01	0.11	1	1.14
yfiK	putative me	0.94	0.05	1	0.86	0.09	1	0.99
yhjY	putative me	0.86	0.08	1	1.26	0.14	1	1.35
yhbV	conserved	1.01	0.05	1	1.12	0.14	1	1.45
	putative tra	1.09	0.1	1	0.85	0.24	1	0.95
yfhE	chaperone	1.13	0.1	1	1	0.23	1	1.09
bcfG	fimbrial cha	1.06	0.06	1	1.07	0.25	1	1.21
fbp	fructose-1,6	1.01	0.34	1	1.13	0.11	1	1.21
dnaC	probable D	0.93	0.12	1	1.19	0.09	1	1.21
		0.13	0.08	1	1.09	0.19	1	n/a
	ferric iron r	0.98	0.16	1	1.03	0.15	1	1.22
kbl	2-amino-3-	0.95	0.04	1	1.31	0.2	1	1.41
yhjQ	conserved	0.94	0.07	1	1.31	0.34	1	1.23
	conserved	0.93	0.1	1	1.06	0.16	1	1.27
glpQ	glycerophos	0.86	0.11	1	0.85	0.09	1	0.95
nrdA	ribonucleos	0.96	0.06	1	1.12	0.26	1	1.01

spal	secretory a	0.95	0.06	1	1.07	0.2	1	1.12
yiiR	putative me	1.22	0.1	1	1.25	0.11	1	1.22
	possible 5-	0.97	0.06	1	1.02	0.17	1	0.93
sucB	dihydrolipo.	0.93	0.08	1	0.97	0.16	1	0.87
glnG	Two-compr	0.9	0.05	1	1.27	0.19	1	1.43
pabA	para-aminc	1.04	0.09	1	0.96	0.19	1	1.18
polA	DNA polym	1.13	0.11	1	1.17	0.36	1	1.38
	conserved	1.01	0.13	1	0.98	0.22	1	0.91
yheS	probable A	1.01	0.04	1	1.17	0.16	1	1.22
soxS	regulatory p	1.18	0.14	1	1.24	0.2	1	1.26
recO	DNA repair	0.98	0.14	1	1.11	0.2	1	1.06
opdB	oligopeptid	0.98	0.08	1	0.73	0.07	1	0.93
	possible ex	0.9	0.16	1	1.25	0.22	1	1.17
	conserved	1.04	0.11	1	1.2	0.18	1	1.59
ydhE	hypothetica	1.03	0.1	1	0.82	0.19	1	0.78
	putative an	0.48	0.07	1	1.09	0.19	1	1.06
tnpA	transposas	2.24	0.37	1	0.84	0.07 n/a		0.9
yfiH	conserved	1.05	0.03	1	0.98	0.23	1	1.04
yaaF	putative nu	0.97	0.04	1	0.99	0.06	1	1.11
		0.49	0.07	1	0.88	0.21 n/a		0.85
	hypothetica	0.85	0.16	0	1.54	1.14	0	0.71
	endonuclea	1.07	0.06	1	1.27	0.61	0	1.28
		0.22	0.04	1	1.11	0.47	1	0.75
	hypothetica	0.93	0.19	0	1.42	0.37	0	1
pduP	putative Cc	0.91	0.11	1	0.73	0.07	1	0.87
nrfD	cytochrome	0.92	0.11	1	1.18	0.05	1	1.04
	conserved	1.05	0.14	1	0.84	0.09	1	0.9
	putative int	0.91	0.2	0	1.22	0.21	0	1.16
yaaH	conserved	1.06	0.09	1	1.03	0.11	1	1.09
ar to genes	in phage ph	0.54	0.13	1	1.03	0.06	1 n/a	
nhaR	transcriptio	1	0.09	1	1.08	0.04	1	1.1
	lipopolysac	0.98	0.13	1	1.32	0.11	1	1.26
yigL	conserved	0.97	0.02	1	1.4	0.22	1	1.3
hemD	uroporphyr	1.01	0.04	1	1.4	0.17	1	1.28
epd	D-erythroε	0.96	0.08	1	1.19	0.17	1	1.07
	conserved	0.96	0.07	1	0.71	0.1	1	0.72
hyaE	hydrogenas	1.05	0.14	1	0.7	0.54 n/a		0.96
kduD	2-keto-3-de	0.85	0.06	1	1.03	0.15	1	1.09
	conserved	0.99	0.1	1	0.99	0.07	1	0.97
	conserved	0.98	0.1	1	1.25	0.33	1	1.19
	possible m	1.03	0.06	1	1.23	0.19	1	1.32
ygdH	conserved	0.95	0.15	1	1.02	0.1	1	1.2
	putative lip:	1.04	0.08	1	1.23	0.26	1	1.36
metE	5-methyltet	1.06	0.08	1	1.36	0.24	1	1.05
xerC	integrase/r	1.03	0.14	1	1.43	0.2	1	1.24
wecB	UDP-N-ace	0.97	0.09	1	1.23	0.21	1	1.26
birA	bifunctiona	0.93	0.12	1	1.17	0.28	1	1.22
recC	exonucleas	1.02	0.08	1	1.05	0.16	1	1.18
oppF	oligopeptid	1	0.08	1	0.7	0.08	1	0.67
tpiA	triosephosφ	1.01	0.05	1	1.33	0.14	1	1.4
apt	adenine ph	1.07	0.1	1	0.92	0.13	1	0.9
ine protein		0.19	0.04	1	1.02	0.1	1 n/a	

fepA	ferrienterotoxin	0.96	0.13	1	0.92	0.12	1	0.91
	putative metal-binding protein	1.02	0.03	1	0.77	0.11	1	0.86
	conserved	1	0.07	1	0.99	0.15	1	0.87
	putative regulator	0.87	0.08	1	0.67	0.15	1	0.81
	possible A <sup>+</sup> regulator, LysR family	1.04	0.08	1	0.64	0.1	1	0.8
	conserved	0.14	0.02	1	0.79	0.1	1	n/a
	conserved	1	0.07	1	0.74	0.12	1	0.75
cryptase		1.1	0.08	1	0.76	0.31	1	n/a
	hypothetical	1	0.2	1	0.71	0.08	1	0.72
	outer membrane protein	1.17	0.12	1	0.88	0.12	1	0.85
	putative transporter	1.08	0.12	1	0.85	0.1	1	0.85
cydC	transport ATPase	0.93	0.09	1	0.83	0.07	1	0.79
citX	conserved	0.68	0.12	1	1.01	0.11	1	0.8
dsbG	thiol:disulfide isomerase	0.9	0.12	1	1.03	0.25	0	0.82
	putative outer membrane protein	1.07	0.06	1	0.67	0.1	1	0.81
		1.11	0.07	1	0.66	0.11	1	0.7
	putative export protein	0.92	0.06	1	0.65	0.14	1	0.82
dbpA		0.98	0.09	1	0.76	0.12	1	0.76
	putative ATPase	0.88	0.08	1	0.72	0.04	1	0.79
ygcA	putative RNA polymerase	0.99	0.06	1	1.02	0.14	1	1.17
	putative metal-binding protein	1.08	0.12	1	1.03	0.12	1	1.19
	conserved	1.09	0.09	1	1.03	0.06	1	1.22
pilT	Type II secretion system	0.82	0.07	1	1.23	0.05	1	1.17
tig	trigger factor	1.06	0.19	1	1.05	0.62	1	0.97
	conserved	0.99	0.06	1	1.26	0.14	1	1.22
	conserved	0.91	0.12	1	1.25	0.13	1	1.32
	conserved	1.09	0.17	1	1.4	0.11	1	1.27
	possible export protein	1.06	0.09	1	1.1	0.1	1	1.47
ygeA	conserved	1.03	0.11	1	1.13	0.15	1	1.13
acylttransferase		0.14	0.05	1	1.12	0.16	1	n/a
regulator		0.14	0.03	1	1.13	0.16	1	n/a
dppC	dipeptide transport protein	1.06	0.18	1	1.2	0.08	1	1.13
avtA	valine--pyruvate aminotransferase	0.96	0.06	1	1.45	0.3	1	1.3
	putative regulator	0.99	0.08	1	1.28	0.18	1	1.3
yicH	putative export protein	0.94	0.06	1	1.4	0.22	1	1.45
res		0.97	0.06	1	1.06	0.12	1	1
hycA	formate hydrogen lyase	0.91	0.12	1	0.96	0.11	1	1.23
	conserved	0.89	0.07	1	1.06	0.19	1	1.22
hypB	hydrogenase	0.91	0.04	1	1.08	0.08	1	1.01
yohK	putative nucleoside transferase	0.9	0.04	1	0.84	0.09	1	0.78
rfbM2	mannose-1-phosphate transferase	0.98	0.04	1	0.83	0.11	1	0.9
dcd	deoxycytidyl transferase	0.98	0.06	1	0.78	0.11	1	0.87
dsbE1	thiol:disulfide isomerase	0.99	0.06	1	1.16	0.15	n/a	1
yejE	putative biringer toxin	1.05	0.12	1	0.89	0.08	1	0.78
	putative general stress protein	1.05	0.1	1	0.78	0.06	1	0.83
htpX	heat shock protein	1.11	0.11	1	0.72	0.07	1	0.81
rpsM	30S ribosomal protein	1.11	0.1	1	1.23	0.27	1	1.48
uspA	universal stress protein	1.04	0.15	1	1.23	0.17	1	1.36
sspB	stringent response protein	1.06	0.13	1	1.1	0.11	1	1.38
kdgK	2-dehydroquinate synthase	1.08	0.08	1	1.27	0.11	1	1.25
gntT	high-affinity glucose-6-phosphate dehydrogenase	0.95	0.08	1	1.13	0.06	1	1.21
cysQ	cysQ protease	1.04	0.08	1	1.14	0.1	1	1.11

	conserved	0.95	0.07	1	1.2	0.12	1	1.38
srlR	glucitol ope	1	0.08	1	1.05	0.1	1	1.07
	putative ox	0.98	0.08	1	0.9	0.09	1	0.97
yghB	DedA-famil	1.14	0.12	1	1.08	0.17	1	1.12
ssal	putative pa	0.9	0.08	0	1.03	0.53	0	0.89
sdhA	succinate c	0.99	0.39	1	0.92	0.11	1	0.87
	conserved	1.06	0.11	1	0.82	0.02	1	0.83
	ie (flavoproteins)	0.07	0.02	1	0.84	0.07	1	n/a
flgC	putative fla	1.11	0.13	1	0.72	0.09	1	0.72
bioA	adenosylm	1.14	0.1	1	0.9	0.13	1	0.8
	ne protein	0.22	0.07	1	0.83	0.12	1	n/a
	conserved	0.95	0.09	1	0.98	0.15	1	1.19
rmbA	conserved	0.91	0.16	1	1.25	0.28	1	1.56
	conserved	0.99	0.08	1	1.11	0.09	1	1.29
sseF	putative pa	0.85	0.14	1	0.73	0.11	1	0.78
ompX	outer mem	1.26	0.15	1	0.96	0.18	1	0.88
sgaB	putative PT	0.88	0.09	1	1.05	0.17	1	1.06
	ribokinase family	0.07	0.02	1	1.19	0.14	1	n/a
araJ		1.04	0.09	1	1.01	0.13	1	0.91
	st modification	0.64	0.06	1	1.15	0.15	1	1.1
ybaV	putative ex	1.03	0.09	1	0.9	0.12	1	0.93
	hypothetica	0.9	0.11	1	1.07	0.21	1	0.94
		0.99	0.12	1	1.07	0.15	n/a	0.87
		0.85	0.11	1	0.9	0.07	1	0.94
	hypothetica	0.87	0.1	1	0.95	0.14	1	1.03
	possible tra	0.86	0.07	1	0.95	0.19	1	0.94
syd	syd protein	0.93	0.08	1	1.01	0.04	1	1.08
	hypothetica	0.95	0.18	1	1.06	0.15	1	1.22
	hypothetica	1.01	0.15	1	1.21	0.13	1	1.45
	putative PT	1.07	0.18	1	1.28	0.26	1	1.61
hybG	hydrogenas	1.2	0.1	1	1.09	0.13	1	1.24
	hydrogenas	1.08	0.12	1	0.63	0.1	1	0.64
marR	multiple an	1.1	0.1	1	0.67	0.05	1	0.76
yidH		1.01	0.11	1	1.38	0.18	1	1.31
recG	ATP-deper	0.98	0.06	1	1.4	0.14	1	1.19
	putative me	1.03	0.09	1	1.11	0.2	1	1.48
ilvN	acetohydro	1.06	0.09	1	1.24	0.2	1	1.33
	rotein	0.25	0.04	1	1.11	0.14	1	n/a
	conserved	1.04	0.08	1	0.93	0.14	0	0.84
	uplicate of gltU,V,W)	0.92	0.15	0	1.23	0.35	0	n/a
	rotein	0.46	0.31	0	0.96	0.2	0	n/a
	rotein	0.97	0.14	1	1.47	0.32	0	n/a
	1 of DNA synthesis	0.95	0.14	0	1.32	0.44	0	n/a
	ne start	1	0.15	1	1.35	0.25	0	n/a
	putative me	1.05	0.15	1	1.51	0.33	0	1.14
	rotein	1.04	0.14	1	1.15	0.42	1	n/a
	conserved	1.05	0.1	1	1.08	0.07	1	1.11
	hypothetica	1.14	0.08	1	0.76	0.11	1	0.84
	id mutagens; related to	0.12	0.02	1	0.68	0.04	n/a	n/a
	id mutagens; related to	0.11	0.01	1	0.66	0.06	n/a	n/a
	ulence: outer membrar	0.04	0.02	1	0.71	0.1	n/a	n/a
	ne protein	0.07	0.02	1	0.69	0.07	n/a	n/a

rotein		0.04	0.01	1	0.65	0.09	n/a	n/a	
		0.03	0.01	1	0.61	0.09	n/a	n/a	
rotein		0.07	0.02	1	0.65	0.1	n/a	n/a	
		0.22	0.13	1	1.15	0.59	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		1	0.06	1	0.77	0.14	n/a		0.95
		0.94	0.04	1	0.84	0.09	n/a		0.91
		0.95	0.08	1	0.85	0.14	n/a		0.91
		0.99	0.08	1	0.84	0.08	n/a		1.1
aegA	putative ox	0.92	0.08	1	0.91	0.09		1	0.98
osase		0.44	0.07	1	0.91	0.22		0	n/a
staC	outer mem	19.7	9.76	1	n/a	n/a	n/a		0.88
	conserved	4.67	0.77	1	n/a	n/a	n/a		0.95
		1.25	0.11	1	0.94	0.09	n/a		0.84
	putative ba	5.25	0.69	1	n/a	n/a	n/a		0.85
	putative ba	23.86	7.16	1	n/a	n/a	n/a		0.8
	putative ba	12.17	2.24	1	n/a	n/a	n/a		0.92
	putative aut	2.05	0.37	1	1.15	0.22	n/a		1.07
	prophage k	4.3	0.86	1	n/a	n/a	n/a		0.84
	putative pr	12.01	4.54	1	n/a	n/a	n/a		0.79
	putative ba	15.57	5.95	1	n/a	n/a	n/a		0.82
steC	periplasmic	9.69	6.14	1	n/a	n/a	n/a		1.08
	putative ex	9.78	2.8	1	n/a	n/a	n/a		1.14
	hypothetica	1.45	0.21	1	n/a	n/a	n/a		0.82
	putative pr	3.24	1.65	1	n/a	n/a	n/a		0.76
	putative ba	12.51	2.99	1	n/a	n/a	n/a		0.74
	putative ba	11.18	2.56	1	n/a	n/a	n/a		0.75
	possible int	10.42	4.96	1	n/a	n/a	n/a		1.14
	putative me	8.78	3.34	1	n/a	n/a	n/a		0.95
		0.88	0.06	1	0.83	0.13	n/a		0.69
	hypothetica	23.02	6.97	1	n/a	n/a	n/a		0.75
	conserved	6.3	2.34	1	n/a	n/a	n/a		0.77
	hypothetica	13.23	1.33	1	n/a	n/a	n/a		0.77
oadA	oxaloaceta	1	0.09	1	1.05	0.11	n/a		1.03
	DNA adeni	8.16	2.28	1	n/a	n/a	n/a		1.22
	hypothetica	1.93	0.33	1	n/a	n/a	n/a		1.35
		1.06	0.09	1	1.25	0.08	n/a		1.16
	hypothetica	11.07	1.88	1	n/a	n/a	n/a		1.3
	putative me	3.82	0.38	1	n/a	n/a	n/a		1.16
	hypothetica	5.29	4.67	1	n/a	n/a	n/a		1.13
		1.15	0.07	1	1.08	0.14	n/a		1.04
	putative me	13.47	2.47	1	n/a	n/a	n/a		1.12
	conserved	6.69	1.29	1	n/a	n/a	n/a		1.18
	DNA adeni	2.71	0.39	1	n/a	n/a	n/a		1.18
insB	insertion el	10.69	10.72	1	n/a	n/a	n/a		0.93
	hypothetica	3.43	0.52	1	n/a	n/a	n/a		1.06
	putative me	32.49	6.04	1	n/a	n/a	n/a		0.94
torD	TorD prote	0.94	0.06	1	1.37	0.81		1	1.48
thdF	thiophene a	0.99	0.08	1	1.33	0.25		1	1.5
atpB	ATP syntha	1.07	0.17	1	1.26	0.3		1	1.39
waaZ	lipopolysac	1.02	0.13	1	1.29	0.19		1	1.66
	possible Af	0.99	0.1	1	1.12	0.09		1	1.27

ne protein		0.95	0.07	1	1.03	0.09	1	n/a
sspA	stringent st	0.96	0.1	1	1.13	0.17	1	1.33
mreB	rod shape-	1.04	0.1	1	1.14	0.11	1	1.26
dacA	D-alanine c	0.95	0.09	1	0.97	0.26	1	0.97
tein, homolog of hsp70		0.1	0.03	1	0.91	0.83	1	n/a
fur	ferric uptak	1	0.09	1	1.04	0.51	1	0.95
torR		0.89	0.07	1	1.36	0.14	1	1.36
hyaC2	Ni/Fe-hydr	0.99	0.06	1	0.69	0.19	1	0.74
se in bifunctional: 2-ox		0.08	0.02	1	1.33	0.17	n/a	n/a
ydZ	putative Ly	0.77	0.05	1	1.31	0.57	1	1.28
kup	membrane	0.9	0.1	1	1.25	0.08	1	1.4
rfc	O-antigen p	1	0.14	1	0.77	0.33	1	0.9
galE	UDP-gluco	0.92	0.1	1	0.9	0.18	1	0.9
cbiT	precorrin-8	0.99	0.12	1	1.21	0.26	1	0.94
waakK	lipopolysac	0.87	0.06	1	1.17	0.69	1	1.48
	putative s	1.04	0.06	1	1	0.15	1	1.11
yacG	conserved	0.89	0.07	1	1.06	0.16	1	1.05
yadF	carbonic ar	0.98	0.08	1	1.07	0.08	1	1.17
yaeH	conserved	1.03	0.21	1	1.34	0.41	1	1.03
	conserved	0.94	0.05	1	1.02	0.11	1	1.28
	conserved	1.01	0.16	1	1.35	0.28	1	1.27
ndh	NADH dehy	0.97	0.08	1	0.88	0.2	1	0.77
	putative cyi	0.99	0.08	1	1.24	0.44	0	0.8
	putative ou	1.05	0.1	1	0.7	0.12	1	0.89
wzc	putative tyr	1.03	0.1	1	0.95	0.18	1	0.97
	putative se	0.87	0.08	0	1.26	0.41	0	0.67
	conserved	0.88	0.09	1	1.14	0.32	0	0.85
	putative ox	0.98	0.09	1	0.73	0.13	1	0.75
yegH	putative me	0.95	0.08	1	0.81	0.05	1	0.88
lasT	putative RN	0.88	0.06	1	1.11	0.17	1	1.19
ie		0.06	0.01	1	0.91	0.08	1	n/a
gmd	GDP-manr	0.94	0.11	1	0.78	0.06	1	0.84
	putative pro	1.01	0.18	1	0.79	2.02	1	0.87
rotein		0.33	0.02	1	0.89	0.41	1	n/a
		1	0.22	1	1.09	0.27	0	0.95
late isomerase (dehydr		0.07	0.02	1	0.96	0.07	1	n/a
	conserved	0.98	0.1	1	0.87	0.42	1	0.77
udhA	possible py	0.95	0.07	1	1.28	0.09	1	1.34
hyi	putative hy	0.9	0.07	1	1.1	0.16	1	1.16
	conserved	1.03	0.26	1	0.94	0.31	1	1.06
	putative tra	0.99	0.08	1	0.96	0.14	1	0.92
ive minor tail protein		0.08	0.02	1	0.76	0.05	1	n/a
ndk	nucleoside	0.89	0.07	1	1.06	0.51	1	1.21
		0.17	0.08	1	0.95	0.22	1	n/a
guaA	GMP synth	0.78	0.08	1	0.87	0.34	1	1.02
yfhP	conserved	0.99	0.12	1	1.05	0.14	1	1.19
ilar to phage tail assem		0.1	0.02	1	0.84	0.08	n/a	n/a
cpxR	two-compo	0.83	0.12	1	1.27	0.42	1	1.25
ath protein		0.13	0.04	1	1.21	0.16	1	n/a
	possible m	0.92	0.08	1	0.98	0.1	1	1.15
		0.11	0.01	1	1.01	0.06	1	n/a
cysA	sulphate tr:	0.8	0.05	1	0.94	0.09	1	0.98



	putative me	0.96	0.12	1	0.92	0.1	1	1
sopD2		0.81	0.27	1	0.69	0.15	1	0.94
	putative ior	0.92	0.12	1	0.73	0.08	1	0.81
smtA	SmtA prote	1.02	0.07	1	0.77	0.08	1	0.73
	putative de	0.95	0.05	1	0.75	0.33	1	0.79
hisH	amidotrans	0.97	0.11	1	0.81	0.03	1	0.93
	putative so	0.96	0.24	1	0.83	0.15	1	0.89
pduT	putative pr	0.82	0.12	1	0.85	0.08	1	0.83
	putative me	1.09	0.11	1	0.75	0.19	1	0.88
	putative tra	1.12	0.05	1	0.7	0.05	1	0.7
	putative ou	1.01	0.07	1	0.99	0.31	1	0.85
prpE	PrpE protei	1.08	0.11	1	0.9	0.11	1	0.79
katE	catalase HI	1.01	0.1	1	0.81	0.17	1	0.87
yjeS	putative 4F	0.85	0.09	1	1.05	0.1	1	1.27
		0.81	0.09	1	0.75	0.11 n/a		0.93
	putative tra	0.99	0.07	1	0.71	0.07	1	0.76
yjfN	hypothetica	0.96	0.05	1	1.01	0.11	1	1.19
porter		0.08	0.06	1	1	0.09	1 n/a	
ubiG	3-demethyl	1.02	0.06	1	0.8	0.1	1	0.9
ar/spermidine/putrescir		0.06	0.1	1	1.14	0.16	1 n/a	
		0.91	0.06	1	1.05	0.13	1	1.09
pmrF	putative lipi	1	0.09	1	0.8	0.1	1	0.91
	putative ox	0.91	0.08	1	0.95	0.24	1	0.96
e		0.1	0.06	1	1.26	0.16	1 n/a	
aroQ	putative ch	0.94	0.09	1	0.69	0.14	1	0.94
subunit; putative adhes		0.1	0.03	1	1.06	0.1	1 n/a	
prpB	putative ca	0.96	0.12	1	0.91	0.07	1	0.9
yfiG	thioredoxin	0.89	0.11	1	1.07	0.18	1	1.05
aroM	AroM prote	0.91	0.07	1	0.92	0.22	1	1.01
dgkA	diacylglyce	1.08	0.15	1	1.37	0.59	1	1.31
	conserved	0.83	0.03	1	1.27	0.64	1	1.03
	putative lipi	0.84	0.08	1	0.89	0.12	1	0.97
	putative me	0.96	0.08	1	1.19	0.18	1	1.26
ynhG		0.82	0.07	1	0.68	0.51	1	0.86
	N-hydroxye	1.05	0.08	1	0.65	3.43	1	0.77
ada	ADA regula	0.95	0.09	1	0.98	0.13	1	0.88
	putative Gr	1.05	0.09	1	1.16	0.15	1	1.45
acpS	holo-[acyl-c	0.98	0.19	1	1.18	1.1	0	0.93
speD	S-adenosyl	0.98	0.05	1	1.12	0.22	1	1.02
sbmC	putative DN	0.99	0.08	1	0.88	0.33	1	0.89
ampD	AmpD prot	1.02	0.07	1	0.94	0.06	1	0.89
	probable se	1	0.05	1	1.03	0.05	1	0.94
thrS	threonyl-tR	0.89	0.13	1	0.65	0.05	1	0.87
	thiamine bi	0.92	0.05	1	1.03	0.19	1	0.95
	putative an	0.9	0.09	1	0.73	0.21	1	0.73
	conserved	0.97	0.13	1	0.94	0.17	1	0.98
	conserved	0.99	0.1	1	0.91	0.09	1	0.88
fepB	ferriererot	0.91	0.11	1	0.84	0.11	1	0.82
valS	valyl-tRNA	0.91	0.08	1	1.07	0.28	1	1.3
arcA	global resp	0.92	0.24	1	1.03	0.65	1	1.25
cheM	methyl-acc	0.79	0.17	1	1.11	0.12	1	1.34
trmH	tRNA (guar	0.94	0.1	1	1.27	0.2	1	1.36

	putative me	0.94	0.06	1	0.82	0.19	1	0.89
xapB	xanthosine	1.01	0.11	1	0.9	0.16	1	1
iroB	putative gly	0.9	0.04	1	0.98	0.09	1	1.26
ilar to head	protein gpsl	0.14	0.06	1	1.05	0.17	1	n/a
	putative da	0.52	0.17	1	0.89	0.2	n/a	0.93
ilar to head-tail	preconn	0.05	0.02	1	1.03	0.08	1	n/a
yfiC	conserved	0.84	0.06	1	0.92	0.14	1	1.07
assT	probable ai	0.94	0.06	1	1.07	0.34	1	1.28
	putative Hly	0.91	0.09	1	1.27	0.16	1	1.2
yrfB	putative me	0.82	0.05	1	1.17	0.17	1	1.19
	hypothetica	0.96	0.1	1	0.96	0.1	1	1
spaS	secretory p	0.99	0.08	1	1.04	0.13	1	1.18
in ethanolamine	utilizati	0.87	0.05	1	1.18	0.21	1	1.01
yiiM	conserved	1	0.08	1	1.28	0.08	1	1.35
ybeK	probable ni	0.74	0.07	1	0.97	0.07	1	0.87
ybfA	putative ex	0.95	0.13	1	1.14	0.35	0	0.81
invH	cell adhera	0.87	0.09	1	1.01	0.1	1	1.29
fimW	fimbriae w	0.86	0.1	1	1.11	0.1	1	0.88
ybhA	conserved	0.98	0.06	1	0.83	0.11	1	0.83
	ABC transp	1.04	0.11	1	1.18	0.3	1	0.72
ompA	outer mem	1.01	0.1	1	0.75	0.1	1	0.8
flgE	flagellar ho	1.02	0.09	1	0.68	0.08	1	0.72
prfA	peptide cha	1.02	0.06	1	0.9	0.15	1	0.92
otsA	trehalose-6	0.96	0.07	1	0.95	0.36	1	0.88
	hypothetica	0.85	0.19	0	1.25	0.83	0	0.75
atpF	ATP synth	1.03	0.09	1	1.27	0.16	1	1.24
gloA	lactoylgluta	0.98	0.12	1	0.8	0.25	1	0.81
yecS	putative AE	1.07	0.02	1	0.75	0.08	1	0.72
	putative ox	0.9	0.08	1	0.68	0.11	1	0.75
rseB	sigma-E fa	0.96	0.1	1	0.96	0.05	1	1.15
gltA	citrate synt	0.97	0.07	1	0.88	0.1	1	0.85
phoQ	sensor proi	0.96	0.05	1	0.72	0.13	1	0.74
purD	phosphorib	0.79	0.07	1	1.22	0.05	1	1.27
infB	protein cha	0.91	0.07	1	1.09	0.14	1	1.29
pduD	diol dehydr	0.83	0.09	1	0.8	0.09	1	0.78
treC	trehalose-6	0.94	0.1	1	1.08	0.09	1	1.18
spiA	putative ou	0.98	0.05	1	0.65	0.05	1	0.82
fabD	malonyl Cc	0.97	0.1	1	0.73	0.1	1	0.72
osmB	osmotically	1.13	0.08	1	0.98	0.23	0	0.74
ttdA	tartrate def	0.98	0.06	1	1	0.14	1	1.16
waaP	lipopolysac	0.93	0.06	1	1.27	0.11	1	1.38
deoxyribonuclease		0.07	0.01	1	0.84	0.09	n/a	n/a
csgB	nucleation	0.95	0.16	1	0.8	0.28	1	0.88
ubiB	flavin reduc	0.9	0.07	1	1.44	0.18	1	1.36
rplS	50S riboso	1	0.12	1	1.02	0.21	1	1.17
rffA	lipopolysac	0.86	0.11	1	1.39	0.21	1	1.3
	conserved	1.03	0.12	1	1.24	0.1	1	1.29
flgl	flagellar P-	0.95	0.06	1	0.82	0.07	1	0.69
cysG	siroheme s	0.8	0.04	1	1.13	0.1	1	1.18
lgt	prolipoprot	1.03	0.07	1	1.03	0.06	1	1.05
dnaG	DNA prima	0.95	0.07	1	1.14	0.05	1	1.43
phnU	probable m	0.97	0.08	1	1.01	0.03	1	0.81

fdoH	formate de	0.92	0.12	1	1.28	0.14	1	1.3
glnQ	glutamine t	0.94	0.04	1	1.07	0.26	1	0.77
fadA	small (beta	0.89	0.06	1	1.27	0.22	1	1.2
flhB	flagellar bic	1.05	0.06	1	0.7	0.13	1	0.76
	putative ex	0.97	0.07	1	0.74	0.08	1	0.79
yiaS	putative su	1.23	0.39	0	1.86	1.8	0	0.66
yadE	conserved	0.87	0.08	1	0.92	0.2	1	0.99
ahpC	alkyl hydrog	1.03	0.1	1	0.94	0.09	1	0.87
galR	galactose c	0.99	0.08	1	1.11	0.1	1	1.01
	putative lipi	0.86	0.04	1	1.25	0.09	1	1.47
yebI	high-affinity	1	0.07	1	0.69	0.08	1	0.8
	putative hy	0.92	0.06	1	0.69	0.31	1	0.77
narY	respiratory	0.94	0.04	1	0.66	0.05	1	0.75
narV	respiratory	1.11	0.11	1	0.69	0.11	1	0.66
stbD	putative fir	0.98	0.08	1	0.92	0.08	1	0.92
cls	cardiolipin :	1.04	0.04	1	0.68	0.04	1	0.74
	conserved	0.83	0.09	1	0.75	0.06	1	0.83
	conserved	0.94	0.08	1	0.76	0.09	1	0.82
yebL	high-affinity	0.96	0.14	1	0.77	0.06	1	0.9
	putative me	1.02	0.08	1	0.66	0.1	1	0.81
	conserved	0.98	0.07	1	0.9	0.15	1	0.97
	molybdopte	1.03	0.07	1	0.93	0.1	1	0.81
ne protein		0.09	0.02	1	1.02	0.11	1	n/a
fepG	ferric enter	0.99	0.05	1	0.93	0.83	1	0.74
	possible tra	0.95	0.06	1	0.92	0.12	1	1.04
citC	[citrate (pr	0.98	0.06	1	0.96	0.2	1	0.84
rotein		0.15	0.04	1	0.59	0.07	1	n/a
appB	probable cy	1	0.08	1	0.67	0.04	1	0.77
ne protein		0.16	0.04	1	0.64	0.2	1	n/a
zwf	glucose 6- $\pi$	0.93	0.06	1	0.73	0.06	1	0.82
phate isomerase		0.29	0.08	1	0.72	0.08	1	n/a
binding periplasmic prc		0.13	0.03	1	1.16	0.09	1	n/a
	putative typ	0.96	0.11	1	0.98	0.07	1	1.03
pgk	phosphogly	0.96	0.09	1	1.12	0.09	1	1.16
	putative de	0.92	0.1	1	0.93	0.06	1	0.94
		0.87	0.05	1	1.2	0.2	1	1.25
srlA	PTS syster	1.05	0.11	1	1.13	0.11	1	1.16
	hypothetica	0.83	0.06	1	0.99	0.15	1	0.91
	hypothetica	0.87	0.14	1	1.21	0.22	1	1.12
fucU	fuscose op	0.92	0.07	1	1.07	0.09	1	1.23
ir to orfG protein in pha		0.34	0.1	1	1.02	0.14	1	n/a
proC	pyrroline-5-	0.95	0.09	1	1.02	0.12	1	0.88
cyoE	cytochrome	0.88	0.04	1	0.94	0.03	1	0.85
	conserved	1.02	0.05	1	0.98	0.08	1	1.16
	hypothetica	1.01	0.09	1	1.04	0.12	1	1.12
	putative me	1.05	0.1	1	0.62	0.05	1	0.65
ilvY	LysR-famil	0.81	0.04	1	1.32	0.16	1	1.19
gutQ	putative ph	1.03	0.07	1	1.06	0.09	1	0.98
ne protein		0.98	0.07	1	1.18	0.15	1	n/a
		0.43	0.05	1	1.01	0.23	1	0.87
oraA	putative re $\pi$	0.92	0.15	1	0.94	0.07	1	1.06
galS	mgl repres:	0.88	0.08	1	0.8	0.12	1	0.93

yejK	nucleoid-as	0.86	0.08	1	0.84	0.08	1	0.86
		0.83	0.06	1	0.9	0.19	1	0.92
yohG	putative lipi	0.99	0.13	1	0.78	0.1	1	0.87
fruA	PTS syster	0.97	0.09	1	0.9	0.22	1	0.67
	putative nu	1.04	0.1	1	0.85	0.1	1	0.9
	putative n-l	0.99	0.1	1	0.71	0.08	1	0.73
yiaM	putative me	1.06	0.07	1	1.23	0.19	1	1.35
	conserved	0.94	0.06	1	0.98	0.2	1	0.83
yjfH	probable tF	0.84	0.06	1	1.12	0.06	1	1.2
yheN	conserved	0.91	0.12	1	1.21	0.15	1	1.26
hflX	HflX protei	0.94	0.11	1	1.17	0.09	1	1.21
	probable ai	0.92	0.03	1	1.08	0.08	1	1.03
trpR	probable tr	0.85	0.04	1	1.18	0.1	1	1.29
	conserved	1.02	0.07	1	1	0.1	1	0.98
	putative me	0.99	0.08	1	0.81	0.16	1	0.81
mltC	membrane	1.05	0.91	1	1.15	0.18	1	1.32
	conserved	0.84	0.11	1	1.03	0.13	1	1.14
nadA	quinolinate	0.9	0.08	1	0.89	0.1	1	0.91
dinG		0.98	0.1	1	0.83	0.08	1	0.81
recJ	single-strar	0.91	0.09	1	1.03	0.08	1	1.11
	possible lip	1.02	0.09	1	1.12	0.12	1	1.21
moaE	molybdopte	1	0.06	1	0.9	0.05	1	0.78
yliG	conserved	1.02	0.04	1	0.87	0.06	1	0.75
ttrC	tetrathional	0.92	0.08	1	0.69	0.03	1	0.71
	conserved	1	0.16	1	1.24	0.29	1	1.18
ase 2	flagellin (filament	0.37	0.07	1	0.94	0.09 n/a		0.78
	putative me	0.92	0.04	1	1.07	0.12	1	1.03
ybiW	putative for	0.91	0.04	1	0.9	0.07	1	0.86
	putative me	0.98	0.06	1	0.95	0.09	1	0.86
bolA	BolA protei	1.02	0.14	1	0.96	0.05	1	0.94
	DNA helicases	0.04	0.01	1	1.11	0.13	1 n/a	
	ar to late control gene E	0.46	0.13	1	0.95	0.09	1 n/a	
e		0.12	0.04	1	1.04	0.13	1 n/a	
ecnA	entericidin	0.8	0.04	0	1.16	0.28	0	1.14
	latory protein, merR fan	0.24	0.06	1	1.06	0.06	1 n/a	
cutA	periplasmic	0.9	0.06	1	1.08	0.13	1	1.15
frdD	fumarate re	0.93	0.08	1	1.08	0.06	1	0.63
invF	possible Ar	1	0.09	1	0.66	0.06	1	0.75
ipk	isopentenyl	0.91	0.07	1	0.73	0.06	1	0.85
	phage base	0.85	0.14	1	0.92	0.09	1	1.14
wcaH	putative O-	1.04	0.06	1	0.83	0.07	1	0.83
	phage-like	1.01	0.05	1	1.16	0.07	1	1.24
rpmA	50S riboso	1	0.08	1	1.08	0.09	1	1.18
	conserved	0.96	0.07	1	1.15	0.12	1	1.39
	hypothetica	1	0.06	1	1.06	0.08	1	1.21
pykA	pyruvate ki	0.99	0.04	1	0.74	0.07	1	0.8
	putative se	0.88	0.07	1	0.69	0.06	1	0.72
	conserved	0.83	0.13	1	1.08	0.07	1	1.46
	conserved	0.99	0.07	1	0.82	0.07	1	0.97
	hypothetica	1.08	0.07	1	0.94	0.06	1	0.85
ypeB	conserved	0.89	0.09	1	0.84	0.04	1	0.92
	zinc-rich repeat protein	0.11	0.04	1	0.86	0.05	1 n/a	

	conserved	0.86	0.11	1	0.94	0.11	1	0.96
	conserved	0.98	0.11	1	0.95	0.13	1	1.11
	conserved	0.99	0.07	1	0.86	0.04	1	0.89
	conserved	1.04	0.14	1	0.76	0.1	1	0.85
chaB	cation trans	0.94	0.14	1	0.68	0.07	1	0.79
lipB	lipoate-prot	0.95	0.05	1	0.87	0.05	1	0.8
	putative lipi	1.06	0.07	1	0.88	0.04	1	0.82
folC	folylpolyglu	0.96	0.1	1	0.83	0.08	1	0.83
drase		0.03	0.01	1	0.63	0.08 n/a	n/a	
rotein		0.2	0.18	1	0.87	0.29 n/a	n/a	
rotein		0.09	0.04	1	0.69	0.08 n/a	n/a	
egulation		0.05	0.02	1	0.66	0.08 n/a	n/a	
ne protein		0.05	0.06	1	0.65	0.09 n/a	n/a	
: antidote		0.09	0.03	1	0.71	0.05 n/a	n/a	
ε D		0.06	0.02	1	0.59	0.07 n/a	n/a	
		0.93	0.25	0	1.52	0.45 n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
acrB	acriflavin re	1.02	0.12	1	0.94	0.14	1	0.83
		1.01	0.08	1	0.98	0.07 n/a		0.93
		0.9	0.12	0	1.4	0.34 n/a	n/a	
		1	0.64	0	1.13	0.4	0	0.83
		1.02	0.04	1	0.96	0.08 n/a		0.89
		0.99	0.12	1	0.97	0.06 n/a		0.89
hlyE	haemolysin	5.16	2.57	1 n/a	n/a	n/a		0.76
	hypothetica	21.03	4.46	1 n/a	n/a	n/a		0.68
	hypothetica	16.08	3.65	1 n/a	n/a	n/a		0.73
	bacteriophage	15.04	8.96	1 n/a	n/a	n/a		0.7
yjcS	putative hy	9.21	7.52	1 n/a	n/a	n/a		0.77
	putative ba	20.5	4.32	1 n/a	n/a	n/a		0.79
	hypothetica	14.79	2.97	1 n/a	n/a	n/a		0.71
	hypothetica	10.48	2.91	1 n/a	n/a	n/a		0.68
cdtB	putative tox	8.42	7.23	1 n/a	n/a	n/a		0.79
	putative ba	20	6.82	1 n/a	n/a	n/a		0.73
	hypothetica	6.61	0.9	1 n/a	n/a	n/a		0.94
	putative DN	31.33	3.37	1 n/a	n/a	n/a		0.77
	hypothetica	6.63	1.48	1 n/a	n/a	n/a		0.65
	putative N/	1.11	0.11	1	0.66	0.06 n/a		0.63
	putative ba	17.79	8.45	1 n/a	n/a	n/a		0.76
	putative ba	24.54	8.35	1 n/a	n/a	n/a		0.81
	putative tra	45.86	18.57	1 n/a	n/a	n/a		0.77
racC	putative ba	11.47	2.7	1 n/a	n/a	n/a		0.97
		1.04	0.1	1	0.72	0.08 n/a		0.75
	putative ba	14.09	3.11	1 n/a	n/a	n/a		0.78
	putative ba	15.52	5.88	1 n/a	n/a	n/a		0.72
	hypothetica	3.6	0.85	1 n/a	n/a	n/a		1.23
	conserved	11.16	2.83	1 n/a	n/a	n/a		0.83
	hypothetica	8.74	1.35	1 n/a	n/a	n/a		0.71
	hypothetica	4.93	1.98	1 n/a	n/a	n/a		1.28
		1.37	0.11	1	0.93	0.08 n/a		1.25
pilR	putative me	20.4	4.59	1 n/a	n/a	n/a		0.94
	putative me	18.61	4.76	1 n/a	n/a	n/a		1.22
	conserved	27.54	9.41	1 n/a	n/a	n/a		1.09

	putative po	4.06	0.35	1	n/a	n/a	n/a	1.21
	hypothetica	4.61	0.97	1	n/a	n/a	n/a	1.1
yafM	conserved	3.93	1.59	1	n/a	n/a	n/a	1.12
	cytochrome	1.66	0.12	1	1.11	0.07	n/a	1.08
pilO	putative pil	25.04	4.88	1	n/a	n/a	n/a	1.14
	putative ex	7.6	4.31	1	n/a	n/a	n/a	1.04
		1.37	0.13	1	1.03	0.15	n/a	1.13
yadG	hypothetica	0.87	0.06	1	1.05	0.18	1	1.06
lpxB	lipid-A-disa	0.99	0.08	1	1.16	0.3	1	0.91
	putative ox	1.06	0.04	1	0.8	0.1	1	0.76
pmrA	two-compo	1.01	0.09	1	1.21	0.27	1	1.25
pgtA	phosphogly	0.97	0.03	1	0.86	0.08	1	0.9
atpI	ATP synthase	1.02	0.04	1	1.39	0.08	1	1.39
fis	Fis DNA-bi	0.95	0.08	1	1.23	0.12	1	1.39
cbiB	CbiB protei	1.02	0.05	1	0.75	10.4	1	0.73
cobU	cobinamide	0.94	0.12	1	0.87	0.04	1	0.76
citF2	citrate lyase	0.89	0.06	1	1.02	0.08	1	1.02
ispB	octaprenyl-	1	0.05	1	1.3	0.42	1	1.34
rotein		0.28	0.08	1	1.26	0.09	1	n/a
rluA	ribosomal l	0.89	0.09	1	1.24	0.11	1	1.02
aceE	pyruvate de	0.93	0.13	1	1.05	0.08	1	1.02
it		0.17	0.03	1	1.2	0.17	1	n/a
dgt	deoxyguan	0.96	0.07	1	1.06	0.14	1	1.09
yaeJ	putative rel	0.97	0.07	1	0.98	0.26	1	0.84
	putative alc	0.76	0.1	1	0.7	0.26	1	0.71
leuS	leucyl-tRNA	0.87	0.09	1	0.93	0.1	1	0.89
ne protein		0.31	0.02	1	0.96	0.07	1	n/a
	probable D	1.09	0.08	1	0.89	0.19	1	0.8
	conserved	1.04	0.08	1	1.11	0.24	1	1.1
nucD2	putative lys	1.04	0.09	1	0.99	0.28	1	1.16
rotein		0.12	0.05	1	1.04	0.17	1	n/a
	conserved	0.99	0.09	1	1.04	0.15	1	1.11
sthC		0.92	0.08	1	1.17	0.21	1	1.21
rotein		0.3	0.02	1	1.26	0.46	0	n/a
ft; putative HSP70 clas		0.21	0.05	1	1.13	0.27	0	n/a
		0.11	0.03	1	1.04	0.28	1	n/a
groEL	GroEL prot	0.92	0.04	1	1.21	0.37	1	1.19
yafK	putative ex	0.92	0.1	1	1.02	0.19	1	1.08
able minor tail protein		0.07	0.02	1	0.93	0.09	1	n/a
	conserved	1.12	0.11	1	1.15	0.3	1	0.8
	putative tra	1.06	0.08	1	0.81	0.12	1	0.8
	putative ex	1.04	0.07	1	0.79	0.17	1	0.86
	putative pr	1.04	0.09	1	0.91	0.15	1	0.77
		1.03	0.08	1	0.97	0.17	1	0.78
yrdB	conserved	0.92	0.12	1	1.16	0.32	1	1.1
yheV	conserved	1.09	0.05	1	1.23	0.26	1	1.09
mrcA	penicillin-bi	0.87	0.06	1	1.23	0.25	1	1.26
hate cyclase (with b34'		0.17	0.04	1	1.19	0.15	1	n/a
gntU	low-affinity	0.79	0.09	1	1.33	0.14	1	1.26
dmsA	anaerobic c	0.87	0.1	1	0.75	0.08	1	0.9
	hypothetica	0.94	0.16	1	1.27	0.19	1	1.57
	putative AE	1.04	0.07	1	1.37	0.16	1	1.21

ate lyase activating enz		0.17	0.03	1	1.27	0.18	1	n/a
fhlA	transcriptio	0.86	0.06	1	1.19	0.11	1	1.3
		0.61	0.06	1	1.16	0.11	1	1.17
gldA	glycerol de	1.02	0.06	1	1.41	0.34	1	1.36
hycD	formate hy	0.98	0.05	1	1.07	0.1	1	0.95
	hypothetica	0.85	0.08	1	1.14	0.12	1	1.23
		0.15	0.04	1	1.12	0.2	1	n/a
yfeC	conserved	1.12	0.15	1	1.08	0.18	1	0.98
narQ	nitrate/nitrit	0.79	0.13	1	0.98	0.06	1	1.03
		0.16	0.01	1	0.91	0.12	n/a	n/a
glpX	putative gly	0.86	0.08	1	1.35	0.54	1	1.24
ike IIC component		0.1	0.01	1	1.24	0.09	1	n/a
phnO	putative ac	0.92	0.1	1	1.21	0.19	1	1.25
ne protein		0.4	0.16	0	1.13	0.38	1	n/a
xapA	xanthosine	0.97	0.08	1	0.9	0.11	1	0.94
	putative AE	0.94	0.06	1	0.75	0.21	1	0.77
pntB	pyridine nu	1.11	0.07	1	0.69	0.32	1	0.72
ine protein		0.56	0.08	1	0.94	0.3	1	0.99
bcfB	fimbrial cha	0.94	0.07	1	1.19	0.1	1	1.17
yjfK	conserved	0.97	0.07	1	1.06	0.13	1	1.23
ytfM	putative ex	1.01	0.1	1	1.25	0.17	1	1.22
mpl	murein pep	1.01	0.05	1	1.16	0.18	1	1.12
		1.15	0.13	1	0.85	0.08	1	0.83
rotein		0.04	0.01	1	1.18	0.11	1	n/a
	putative su	0.94	0.06	1	1.18	0.13	1	1.09
	putative ox	1.11	0.14	1	0.75	0.05	1	0.75
infC	translation	1.08	0.07	1	0.91	0.36	1	0.86
	putative an	0.93	0.04	1	0.86	0.14	1	0.96
	putative su	0.96	0.09	1	0.81	0.11	1	0.78
subunit		0.11	0.01	1	1.04	0.11	1	n/a
msyB	acidic prote	1.05	0.13	1	0.91	0.29	1	0.77
	conserved	1.01	0.07	1	1.17	0.47	1	0.83
cfa	cyclopropa	0.96	0.1	1	0.85	0.2	1	0.86
solA	putative sa	0.98	0.04	1	0.83	0.12	1	0.79
ansA	L-Asparagi	0.9	0.1	1	0.8	0.14	1	0.86
dsbA	thiol:disulfic	1.01	0.06	1	1.38	0.23	1	1.6
osmE	osmotically	1.02	0.13	1	0.81	0.1	1	0.76
il assembly proteins		0.12	0.01	1	0.87	0.17	n/a	n/a
tyrS	tyrosyl-tRN	0.93	0.1	1	0.8	0.14	1	0.86
	putative an	1.02	0.12	1	0.84	0.17	1	0.72
mviN	virulence fa	1.04	0.09	1	0.82	0.06	1	0.67
ssaO	putative typ	0.78	0.06	1	0.71	0.27	1	0.81
gidB	glucose inh	1.01	0.08	1	1.46	0.11	1	1.45
yfiD	conserved	1.19	0.13	1	1.26	0.44	0	0.94
mesJ	cell cycle p	0.91	0.16	1	1.16	0.17	1	0.94
malZ	maltodextri	0.94	0.14	1	1.24	0.35	1	0.88
yjbB	putative me	0.94	0.05	1	1.33	0.17	1	1.1
	Sodium:sol	1.07	0.07	1	1.23	0.14	1	1.02
astB	succinylarg	0.98	0.1	1	0.79	0.11	1	0.82
	conserved	0.89	0.02	1	0.85	0.21	1	0.92
	putative ox	0.97	0.06	1	0.94	0.16	1	0.81
ressor of fliC		0.18	0.04	1	0.97	0.15	1	n/a

rfbB	dTDP-gluc	0.96	0.1	1	0.9	0.11	1	0.92
	putative ph	0.91	0.07	1	1.07	0.11	1	1.05
yadS	putative me	0.94	0.02	1	1.04	0.18	1	0.91
fixB	FixB protei	0.95	0.1	1	1.11	0.2	1	1.01
ampE	AmpE prot	1.02	0.11	1	1.13	0.09	1	0.99
yhjJ	putative zir	0.95	0.09	1	1.32	0.13	1	1.35
glpR	glycerol-3- $\phi$	1.02	0.08	1	1.21	0.21	1	1.2
menE	O-succinylk	0.86	0.06	1	0.95	0.08	1	0.84
	putative lip	1.06	0.08	1	0.89	0.14	1	1.03
	hypothetica	1.13	0.15	1	1.26	0.17 n/a		1
gtrB	bactoprenc	0.96	0.08	1	0.97	0.28	1	0.89
smg	putative me	0.98	0.05	1	1.22	11.33	1	1.13
	putative ele	1.1	0.17	1	1.6	0.25	1	1.05
	putative me	0.96	0.09	1	1.25	0.17	1	1.36
yrfE	putative NL	1	0.09	1	1.18	0.13	1	1.21
	putative tra	0.96	0.08	1	0.86	0.11	1	0.85
uraA	uracil perm	0.97	0.1	1	1.04	0.14	1	0.91
ackA	acetate kin	0.93	0.07	1	0.91	0.1	1	0.97
	putative DN	0.58	0.04	1	0.86	0.08 n/a		0.73
arcC	carbamate	0.94	0.06	1	0.93	0.19	1	0.9
yfL	putative me	1.05	0.09	1	1.14	0.64	1	1.12
ilar to antirepressor pro		0.17	0.02	1	0.95	0.69	1 n/a	
		0.98	0.04	1	1.2	0.16	1	1.36
dam	DNA adeni	0.97	0.09	1	1.19	0.32	1	1.3
fruB	pts system	1	0.07	1	0.96	0.07	1	0.85
nrdB	ribonucleos	0.95	0.08	1	0.9	0.16	1	1.07
eutL	ethanolami	0.96	0.06	1	1.03	0.16	1	1
	putative rib	1.03	0.09	1	1.29	0.24	1	1.37
ybfE	conserved	1.08	0.22	0	1.23	0.28	0	0.96
envE	putative lip	0.96	0.05	1	0.73	0.12	1	0.84
spaT	unknown fu	0.96	0.08	1	1.05	0.37	1	1.13
yihE	conserved	1.07	0.08	1	1.43	0.17	1	1.23
	conserved	0.91	0.16	1	1.05	0.14	1	0.86
prkB	phosphorib	1	0.08	1	1.11	0.16	1	1.26
iclR	acetate opt	0.83	0.03	1	1.24	0.14	1	1.27
	putative ox	1.08	0.04	1	0.83	0.14	1	0.79
rpsD	30S riboso	0.91	0.06	1	1.16	0.21	1	1.25
sanA	vancomycii	0.95	0.03	1	0.93	0.57	1	0.92
	conserved	0.95	0.08	1	0.88	0.13	1	0.83
hydH	two-compo	1.04	0.02	1	1.44	0.32	1	1.28
	hypothetica	1.07	0.15	1	1.02	0.22 n/a		1.02
ptsP	phosphoen	1	0.04	1	1.12	0.31	1	1.16
f antigens; secretory pr		0.96	0.06	1	1.02	0.28 n/a		1.03
phsA	thiosulfate	0.96	0.04	1	0.77	0.25	1	0.88
	conserved	0.95	0.05	1	1.05	0.34	1	1.14
	conserved	1.05	0.08	1	1.14	0.16	1	1.12
	possible cc	1.02	0.08	1	1.1	0.33	1	0.82
lspA	lipoprotein	0.88	0.1	1	1.19	0.2	1	1.07
	hypothetica	0.92	0.19	0	1.72	0.48	0	0.81
	hypothetica	0.92	0.06	1	0.78	0.09	1	0.67
yihP	putative me	0.95	0.06	1	1.42	0.18	1	1.27
mntH	manganese	0.91	0.06	1	0.96	0.07	1	0.94



mglA		1.05	0.08	1	0.86	0.08	1	0.92
	conserved	0.98	0.05	1	0.81	0.12	1	0.8
narH	respiratory	0.9	0.08	1	0.77	0.11	1	0.75
	conserved	0.88	0.06	1	0.76	0.11	1	0.79
	possible re	0.92	0.05	1	1.05	0.13	1	1.1
ygcZ	probable gl	1.03	0.05	1	1.09	0.21	1	1.03
	possible ox	0.97	0.07	1	1.04	0.14	1	1.14
pepQ	proline dipe	0.94	0.06	1	1.34	0.24	1	1.25
asd	aspartate-s	0.99	0.07	1	1.21	0.15	1	1.16
surA	survival pro	1	0.08	1	1.29	0.18	1	1.01
rffG	UDP-N-ace	0.92	0.03	1	1.37	0.15	1	1.26
ilvE	branched-c	0.98	0.07	1	1.58	0.41	1	1.18
galU	glucose-1-p	1.06	0.1	1	0.73	0.14	1	0.76
rpoB	DNA-direct	0.83	0.05	1	1.27	0.31	1	1.46
	conserved	0.93	0.07	1	0.82	0.05	1	0.8
araB	L-ribulokin	0.86	0.05	1	1.17	0.15	1	0.97
oppB	oligopeptid	0.89	0.08	1	0.76	0.09	1	0.75
bgIX	periplasmic	0.96	0.08	1	0.89	0.12	1	0.84
rotein		0.89	0.05	1	1.28	0.16	1	1.2
entB	isochorism	0.89	0.06	1	1.02	0.13	1	0.74
pgpB	phosphatid	1.15	0.09	1	0.75	0.16	1	0.72
		0.91	0.11	1	0.73	0.07	1	0.77
ne protein		0.69	0.06	1	0.77	0.16	1	n/a
	putative ex	0.92	0.07	1	0.74	0.06	1	0.76
	putative ch	0.97	0.06	1	0.73	0.07	1	0.77
	hypothetica	1.08	0.13	1	0.68	0.16	1	0.79
aes	acetyl ester	1.01	0.05	1	0.99	0.23	1	0.94
citE	citrate lyas	0.99	0.06	1	0.97	0.23	1	0.89
yicJ	sodium:gal	0.97	0.04	1	1.36	0.14	1	1.18
	conserved	1.08	0.12	1	0.83	0.13	1	0.78
	putative pro	1.02	0.1	1	0.79	0.11	1	0.71
	putative lip	0.96	0.03	1	0.74	0.11	1	0.69
	putative se	0.91	0.1	1	0.63	0.13	1	0.78
srfA	putative vir	0.92	0.08	1	0.68	0.15	1	0.69
aac	aminoglycc	0.99	0.11	1	0.73	0.12	1	0.78
purT	phosphorib	0.95	0.06	1	0.83	0.1	1	0.87
	conserved	0.95	0.04	1	0.71	0.1	1	0.74
	conserved	0.99	0.11	1	0.79	0.11	1	0.79
ffh	signal reco	0.93	0.07	1	1.06	0.26	1	1.06
	outer mem	1.21	0.12	1	1.2	0.09	1	1.21
ehydrogenase		0.08	0.02	1	1.13	0.07	1	n/a
thiJ	4-methyl-5i	0.99	0.08	1	1.12	0.11	1	0.9
	conserved	0.95	0.06	1	1.07	0.27	1	0.79
ne protein		0.12	0.02	1	1.25	0.15	1	n/a
	conserved	1.04	0.03	1	1.2	0.17	1	1.1
mtlA	mannitol-sp	0.95	0.05	1	1.32	0.17	1	1.17
		0.95	0.16	1	1.26	0.21	1	1.37
fucl	L-fuculose	0.91	0.07	1	1.05	0.09	1	1.16
	hypothetica	1.05	0.08	1	1.21	0.11	1	1.11
	possible Af	0.97	0.04	1	1.1	0.09	1	1.12
treF	cytoplasmic	0.91	0.06	1	1.27	0.19	1	1.18
	possible ox	0.95	0.02	1	1.1	0.17	1	1.16

lctR	putative L-l	0.86	0.07	1	1.28	0.25	1	1.31
		0.98	0.1	1	1.39	0.17	1	1.29
		conserved	0.85	0.04	1	1.12	0.08	1
yehV	putative tra	0.99	0.08	1	1.01	0.08	1	0.92
rfbP	undecaprei	0.99	0.07	1	0.88	0.08	1	0.89
wcaB	putative ac	1.01	0.1	1	0.83	0.14	1	0.75
yohD	putative me	0.87	0.08	1	0.91	0.17	1	0.83
smg	conserved	1.02	0.06	1	1.11	0.33	1	1.07
yhjC	hypothetica	0.89	0.05	1	1.29	0.17	1	1.23
	conserved	0.99	0.09	1	0.8	0.08	1	0.86
yiaE	putative 2-l	0.99	0.09	1	1.3	0.35	1	1.31
	putative me	1.08	0.08	1	1.23	0.2	1	1.21
mtgA	monofuncti	1.02	0.13	1	1.15	0.09	1	1.15
	putative inr	0.96	0.03	1	1.18	0.07	1	1.05
yjdC	putative tra	0.99	0.05	1	1.33	0.16	1	1.24
	possible ar	0.95	0.04	1	1.19	0.21	1	1.18
tdcB	catabolic th	1.04	0.1	1	1.2	0.2	1	1.32
hybD	hydrogenas	0.96	0.05	1	1.16	0.22	1	1.04
srlD	sorbitol-6-p	0.98	0.05	1	0.98	0.14	1	0.91
ft		0.4	0.06	1	0.91	0.13	1	n/a
	putative DN	0.89	0.16	1	1	0.2	n/a	0.95
		1.02	0.05	1	0.8	0.08	1	0.79
nbly protein		0.12	0.03	1	1.11	0.16	1	n/a
fruK	1-phosphol	1.02	0.03	1	0.96	0.05	1	0.87
yrdD	conserved	0.98	0.09	1	1.27	0.1	1	1.13
rpsC	30S ribosol	1.03	0.09	1	1.27	0.13	1	1.33
	hypothetica	1.18	0.13	1	1.12	0.22	1	1.25
nfsA	oxygen-ins	1.04	0.07	1	0.94	0.09	1	0.79
	putative me	0.94	0.05	1	1.14	0.07	1	1.22
galP	galactose-p	0.99	0.1	1	1.13	0.15	1	1.15
	conserved	1.13	0.12	1	0.83	0.12	1	0.8
moaC	molybdenu	0.84	0.09	1	0.91	0.07	1	0.77
yliC	hypothetica	1.01	0.02	1	0.88	0.11	1	0.69
sigD	cell invasio	0.91	0.03	1	0.89	0.16	1	0.8
tolQ	TolQ protei	0.97	0.07	1	0.95	0.11	1	0.78
bioB	biotin synth	1.01	0.07	1	0.92	0.17	1	0.81
	conserved	0.81	0.05	1	1	0.07	1	0.77
gltD	glutamate s	0.96	0.03	1	1.17	0.14	1	1.16
misL		0.9	0.05	1	1.37	0.26	1	1.44
yfiA	putative sig	1	0.06	1	1.02	0.16	1	1.14
	phosphohis	0.97	0.05	1	1.01	0.06	1	0.94
	conserved	1.07	0.06	1	1.24	0.04	1	1.26
rpoA	DNA-direct	0.97	0.05	1	1.15	0.15	1	1.2
sapA	peptide tra	1.03	0.06	1	0.72	0.07	1	0.65
glnK	nitrogen re	1.05	0.1	1	1	0.12	1	0.9
	putative DN	1.03	0.08	1	1.54	0.17	1	1.36
	galactosyltr	1.11	0.17	1	1.01	0.21	1	0.82
rboxypeptidase (penicil	hypothetica	1.05	0.1	1	1.44	0.28	1	1.45
		0.27	0.05	1	0.97	0.11	1	n/a
		0.16	0.05	1	0.95	0.1	n/a	n/a
ε translocase		0.14	0.02	1	1.37	0.18	1	n/a
ar to gpP, ATP chargin		1.27	0.08	1	1.02	0.17	1	1.05

yebG	conserved	0.87	0.05	1	0.71	0.08	1	0.73
ar to protein from phage		1.33	0.12	1	1.07	0.09 n/a	n/a	
ar to protein in phage 1		0.5	0.05	1	1.07	0.09	1 n/a	
yjiU	conserved	1.1	0.13	1	1.39	0.14	1	1.24
	conserved	0.99	0.04	1	1.17	0.11	1	1.14
lppB	major outer	0.85	0.04	1	0.86	0.14	1	0.91
	conserved	1.06	0.07	1	0.75	0.1	1	0.74
ydhA	putative lipi	0.92	0.08	1	0.76	0.07	1	0.83
	conserved	1.06	0.04	1	0.89	0.13	1	0.74
eutN	putative etf	1.17	0.11	1	0.91	0.03	1	0.89
	conserved	0.96	0.05	1	1.04	0.05	1	0.75
	hypothetica	0.74	0.17	0	1.2	0.2	0	1.07
	conserved	0.86	0.11	1	0.9	0.14	1	0.96
	putative me	1.1	0.14	1	0.73	0.16	1	0.83
	putative ca	1.02	0.12	1	0.78	0.08	1	0.87
	putative se	0.73	0.06	1	0.76	0.08	1	0.64
	hypothetica	1.04	0.08	0	1.29	0.23	0	0.87
ft relative to E.coli hypc		0.1	0.01	1	0.7	0.09 n/a	n/a	
ggregate stability		0.03	0.01	1	0.68	0.14 n/a	n/a	
stop		0.06	0.01	1	0.76	0.09 n/a	n/a	
		0.07	0.01	1	0.67	0.09 n/a	n/a	
		0.09	0.02	1	0.79	0.08 n/a	n/a	
		0.05	0.01	1	0.7	0.08 n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
		0.98	0.08	1	1.04	0.15 n/a		0.94
		0.21	0.01	1	1.07	0.12 n/a	n/a	
		1	0.06	1	1.03	0.15 n/a		0.86
		0.11	0.03	1	1.03	0.12 n/a	n/a	
		0.19	0.03	1	0.86	0.14	1 n/a	
		1.05	0.12	1	1.25	0.28 n/a		1.03
	conserved	11.91	9.63	1 n/a	n/a	n/a		1.06
	hypothetica	19.76	6.05	1 n/a	n/a	n/a		0.87
	putative ex	8.37	1.1	1 n/a	n/a	n/a		0.89
	major caps	2.84	0.15	1	1.11	0.15 n/a		1.12
	conserved	7.26	1.05	1 n/a	n/a	n/a		1.22
	hypothetica	9.91	1.3	1 n/a	n/a	n/a		1.25
	putative me	13.75	2.49	1 n/a	n/a	n/a		1.11
	hypothetica	6.59	0.87	1 n/a	n/a	n/a		1.24
	putative ca	2.61	0.32	1 n/a	n/a	n/a		1.22
		4.79	0.41	1 n/a	n/a	n/a		1.06
	putative DN	1.63	0.12	1	1.36	0.07 n/a		1.23
rspB	starvation s	1.16	0.07	1	0.69	0.07 n/a		0.73
	hypothetica	5.09	0.43	1 n/a	n/a	n/a		1.44
	hypothetica	7.17	3.52	1 n/a	n/a	n/a		1.29
	phage base	5.05	0.96	1 n/a	n/a	n/a		1.12
stgB	fimbrial cha	7.77	3.08	1 n/a	n/a	n/a		1.23
	hypothetica	3.91	1.61	1 n/a	n/a	n/a		0.88

tcfB	putative fir	12.3	4.89	1	n/a	n/a	n/a	0.94
	terminase,	2.44	0.16	1		1.12	0.16	n/a
	putative ba	7.75	2.51	1	n/a	n/a	n/a	0.97
	hypothetica	11.88	4.86	1	n/a	n/a	n/a	1.09
	putative me	1.88	0.27	1		1.11	0.15	n/a
tcfD	putative fir	15.91	11.86	1	n/a	n/a	n/a	0.86
exo	exonucleas	11.6	3.65	1	n/a	n/a	n/a	0.79
		1.1	0.09	1		1.47	0.19	n/a
pilS	deoR famil	5.7	1.17	1	n/a	n/a	n/a	1.13
	prepilin	14.43	2.69	1	n/a	n/a	n/a	0.97
	protein kin	16.49	1.49	1	n/a	n/a	n/a	1.03
glyQ	putative ge	0.87	0.04	1		0.72	0.11	n/a
	glycine-tRN	1.15	0.05	1		1.43	0.09	n/a
	hypothetica	16.27	0.46	1	n/a	n/a	n/a	1.34
	putative me	4.91	1.6	1	n/a	n/a	n/a	1.35
	hypothetica	1.95	0.18	1		1.15	0.06	n/a
sefB	hypothetica	1.75	0.21	1	n/a	n/a	n/a	1.11
	hypothetica	1.63	0.15	1	n/a	n/a	n/a	1.17
	fimbrial cha	9.29	5.85	1	n/a	n/a	n/a	1.21
	conserved	1.07	0.1	1		1.19	0.32	1
yhdE	conserved	0.12	0.02	1		0.9	0.11	1
rotein		1	0.13	1		0.93	0.22	1
	conserved	1	0.13	1		0.93	0.22	1
torA	trimethylar	1.03	0.06	1		1.38	0.09	1
rane protein, possible t		0.18	0.03	1		1.06	0.09	1
cbiO	putative co	0.94	0.12	1		0.88	0.1	1
	putative Ly	0.96	0.07	1		1.22	0.15	1
pstS	periplasmic	1.07	0.07	1		1.31	0.27	1
uhpT	hexosepho	1	0.13	1		1.33	0.2	1
yaaU	putative me	0.92	0.12	1		1.08	0.09	1
murC	UDP-N-ace	1.05	0.11	1		1.11	0.18	1
	PdxA-like p	1.01	0.18	1		1	0.15	1
yabC	conserved	1.07	0.13	1		1.18	0.21	1
rplM	50S riboso	0.99	0.15	1		1.04	0.22	1
accC	biotin carb	1.02	0.09	1		1.09	0.14	1
cobD	putative an	1.03	0.12	1		0.9	0.12	1
ybeJ	ABC transp	1.17	0.16	1		0.92	0.18	1
pgm	phosphogl	1.03	0.18	1		0.91	0.08	1
fabZ	(3R)-hydro	0.97	0.15	1		1.04	0.18	1
	conserved	1.02	0.11	1		0.84	0.22	0
galF	UTP-gluco	0.9	0.1	1		0.77	0.1	1
yegD	conserved	0.96	0.09	1		0.89	0.17	1
yafB	hypothetica	1.02	0.14	1		1.14	0.6	1
safB	periplasmic	0.85	0.13	1		1.05	0.17	1
yegB	putative tra	1	0.17	1		0.9	0.22	1
	putative ph	1.36	0.22	1		0.95	0.24	1
III glucitol		0.12	0.06	1		1.12	0.19	1
DNA and RNA helicase		0.15	0.03	1		1.1	0.26	1
ygaU		1.09	0.06	1		1.03	0.15	1
hpaB	4-hydroxyp	0.94	0.17	1		0.98	0.52	1
ne protein		0.12	0.03	1		0.99	1.31	1
		0.81	0.13	1		1.02	0.25	1
ne protein		0.84	0.15	0		1.2	0.5	0

rpmJ	50S ribosom	0.98	0.24	0	1.16	0.39	0	1.05
crp	cyclic AMP	0.99	0.11	1	1.22	0.3	1	1.37
yhgE	putative me	1.05	0.08	1	1.15	0.12	1	1.09
pipD	putative se	1.09	0.07	1	0.8	0.14	1	0.76
	putative tra	0.99	0.09	1	0.88	0.22	1	0.83
	conserved	1.05	0.15	1	1.13	0.4	0	0.81
	putative lipi	0.96	0.11	1	0.77	0.2	1	0.74
	putative ba	1	0.11	1	1.01	0.35	1	0.93
	putative me	1.17	0.21	1	0.93	0.26	1	0.82
cmk	cytidylate k	1.01	0.03	1	0.98	0.15	1	0.84
able major	tail protein	0.09	0.02	1	0.77	0.09	1	n/a
tein		0.11	0.01	1	1.25	0.2	1	n/a
qor	quinone ox	1.07	0.12	1	1.17	0.31	1	1.29
nrfG	NrfG protei	1.08	0.1	1	1.28	0.14	1	1.11
	conserved	1.15	0.13	1	1	0.08	1	1.13
	putative lipi	1.04	0.16	1	1.21	0.1	1	1.33
	lysR family	0.99	0.16	1	1.13	0.16	1	1.25
dmsB		1.09	0.13	1	1.06	0.16	1	1.21
fabB	3-oxoacyl-]	1.1	0.05	1	0.87	0.11	1	0.95
pdxK	pyridoxine	0.92	0.17	1	0.89	0.14	1	0.93
tive Cu/Zn	superoxide c	0.16	0.03	1	0.94	0.2	1	n/a
fdhE	FdhE prote	0.95	0.05	1	1.36	0.15	1	1.54
rotein		0.09	0.03	1	1.21	0.13	1	n/a
plsB	glycerol-3-φ	0.91	0.1	1	1.3	0.26	1	1.26
	possible Ly	0.91	0.07	1	1.16	0.11	1	1.13
	Similar to h	0.83	0.12	1	1.12	0.27	1	1.13
		0.08	0.02	1	0.89	0.35	1	n/a
celD	putative ce	1.1	0.11	1	0.78	0.08	1	0.84
eutD	putative ph	0.99	0.08	1	0.92	0.2	1	0.99
purB	adenylosuc	0.95	0.21	1	0.77	0.13	1	0.79
	putative se	1.04	0.14	1	0.75	0.08	1	0.83
	putative ex	1.02	0.12	1	1.18	0.44	1	0.97
napB	cytochrome	1.2	0.1	1	0.79	0.15	1	0.76
		0.1	0.04	1	1.1	0.15	1	n/a
	hypothetica	1.07	0.12	1	1.15	0.07	1	1.15
nuoI	NADH dehy	1.08	0.18	1	0.91	0.19	1	0.94
	putative glu	1.02	0.09	1	0.91	0.11	1	0.88
fliZ	FliZ protein	1.17	0.12	1	0.76	0.13	1	0.88
membrane	usher	0.12	0.01	1	1	0.13	1	n/a
yecG	conserved	1.1	0.09	1	0.83	0.08	1	0.96
astE	succinylglu	1.11	0.13	1	0.82	0.17	1	0.77
pdxH	pyridoxami	1.03	0.15	1	0.78	0.16	1	0.82
cdh	CDP-diglyc	1.05	0.07	1	1.36	0.23	1	1.38
sitC	Iron transp	0.93	0.1	1	1.11	0.18	1	1.24
	putative pro	1.1	0.08	1	0.77	0.17	1	0.75
shdA		0.58	0.05	1	0.99	0.15	1	0.98
	conserved	1.14	0.15	1	0.91	0.21	1	0.72
ydgQ	conserved	0.97	0.17	1	0.77	0.07	1	0.77
purR	purine nucl	1.03	0.11	1	0.81	0.2	1	0.81
	putative AE	1.13	0.12	1	0.7	0.15	1	0.84
orgAb	oxygen-reg	0.97	0.14	1	0.99	0.13	n/a	1.26
rnt	ribonucleas	0.99	0.13	1	0.97	0.37	1	0.84

	putative co	1.12	0.12	1	0.91	0.4	1	0.78
putative O-	antigen trar	0.25	0.03	1	0.84	0.14	1	n/a
dsdC	D-serine de	1	0.09	1	1.47	0.14	1	1.39
ung	uracil-DNA	1.13	0.13	1	1.03	0.21	1	1.08
phoB	phosphate	1.14	0.07	1	1	0.28	1	1.01
yaeC	putative lipi	0.99	0.12	1	1.09	0.21	1	0.9
	hypothetica	1.12	0.11	1	1.26	0.53	0	1.1
caiD	carnitine ra	0.86	0.1	1	1.13	0.36	1	1.09
sdiA	cell-divisio	1	0.1	1	0.77	0.07	1	0.83
tyrR	transcriptio	1.09	0.08	1	0.7	0.07	1	0.82
livH	high-affinity	0.97	0.11	1	1.24	0.18	1	1.09
	putative vo	1.07	0.1	1	0.78	0.09	1	0.7
	putative ca	1.01	0.09	1	1.31	0.15	1	1.3
mod	type III rest	0.99	0.13	1	1.01	0.07	1	0.97
ribD	riboflavin b	0.99	0.14	1	1.1	0.06	1	0.93
ubiC	chorismate	1.05	0.08	1	1.23	0.18	1	1.25
polB	DNA polym	0.95	0.1	1	1.03	0.15	1	1.14
		1.2	0.13	1	0.99	0.06	1	1.14
trpS	tryptophan	1.03	0.16	1	1.07	0.14	1	1.3
	hypothetica	0.99	0.2	1	0.88	0.29	1	0.98
cysW	sulphate tra	1.02	0.05	1	0.86	0.14	1	0.9
ybbA	hypothetica	1.1	0.13	1	0.94	0.14	1	0.83
	conserved	0.99	0.19	1	0.99	0.13	1	0.98
	putative ac	0.95	0.11	1	1.06	0.09	1	1.12
cca	tRNA nucle	0.92	0.1	1	1.15	0.14	1	1.15
garR	2-hydroxy-	1.07	0.1	1	1.11	0.1	1	1.32
	possible m	0.85	0.03	1	1.32	0.28	1	1.3
chment and	invasion pr	0.15	0.02	1	0.81	0.16	1	n/a
	putative DN	0.54	0.09	1	0.93	0.3	n/a	0.82
	putative an	1.03	0.05	1	1.05	0.11	1	1.15
	putative me	0.91	0.17	1	0.9	0.08	1	1.05
purK	phosphorib	1.04	0.06	1	0.95	0.06	1	0.79
		0.19	0.08	1	1.11	0.35	0	n/a
	putative me	1.14	0.14	1	1.11	0.24	1	1.1
	putative gly	1.05	0.11	1	1.39	0.2	1	1.42
hisQ	histidine tra	1.04	0.13	1	0.76	0.08	1	0.97
dnaK	DnaK prote	0.98	0.14	1	1.04	0.09	1	1.17
trpE	anthranilate	0.92	0.16	1	0.82	0.17	1	0.73
proV		0.98	0.13	1	1.11	0.19	1	1.22
	conserved	1.14	0.08	1	1.19	0.22	1	1.51
holA	DNA polym	1.03	0.24	1	0.97	0.25	1	0.88
eutJ	putative etf	0.85	0.08	1	0.93	0.14	1	0.82
oxyR	hydrogen p	1.01	0.11	1	1.29	0.09	1	1.25
modE	putative mc	1.04	0.11	1	0.99	0.21	1	0.8
	ABC transp	1	0.11	1	1	0.16	1	0.78
nrdI	NrdI protei	0.96	0.12	1	1.18	0.51	0	1.05
himA	integration	1.07	0.18	1	0.81	0.11	1	0.89
accB	biotin carb	1.02	0.17	1	1.09	0.13	1	1.37
citA	sensor kin	0.97	0.4	1	1.07	0.19	1	1.07
	possible su	1.04	0.13	1	1.06	0.12	1	1.22
	hypothetica	1.06	0.25	0	1.26	0.71	0	0.71
	hypothetica	1.23	0.16	0	0.88	1.09	0	0.81

atpH	ATP synthase	1.02	0.12	1	1.3	0.32	1	1.69
pduN		0.94	0.23	1	0.95	0.36	1	0.87
dmsC	putative dir	1.07	0.1	1	1.09	0.17	1	1
argS	arginyl-tRNA	1.05	0.15	1	0.79	0.13	1	0.87
	probable L	1.08	0.18	1	1.13	0.09	1	1.3
waal	lipopolysac	0.9	0.11	1	1.25	0.58	1	1.39
groES	GroES prote	1.11	0.1	1	1.16	0.13	1	1.18
csgE	assembly/t	1.05	0.13	1	0.91	0.16	1	0.83
yihW	putative De	1.01	0.1	1	1.43	0.23	1	1.29
hupA	histone like	1.1	0.07	1	1.24	0.26	1	1.28
	hypothetica	0.96	0.03	1	1.23	0.23	1	0.85
pduH	PduH prote	0.87	0.11	1	0.92	0.15	1	0.84
adi	arginine de	1.01	0.09	1	1.17	0.13	1	1.15
yifE	conserved	1.26	0.13	1	1.26	0.14	1	1.2
fliS	flagellar pr	0.99	0.07	1	0.98	0.23	0	0.8
cysB	cys regulor	1	0.13	1	0.69	0.36	1	0.66
alr	alanine rac	1.07	0.1	1	1.18	0.26	1	1.15
	probable si	0.95	0.06	1	1.08	0.36	1	1.55
phnS	probable p	0.99	0.08	1	0.96	0.11	1	0.92
tatD	putative de	0.98	0.14	1	1.35	0.24	1	1.05
rhtC	threonine e	0.96	0.19	1	1.38	0.2	1	1.18
	conserved	1.03	0.22	1	1.41	0.2	1	1.37
	putative m	0.95	0.14	1	1.18	0.09	1	1
yaaJ	putative ar	1.04	0.15	1	1.06	0.06	1	1.09
flgJ	flagellar pr	1.12	0.13	1	0.79	0.13	1	0.66
fliF	flagellar ba	0.98	0.05	1	0.81	0.05	1	0.8
cysJ	sulfite redu	0.73	0.07	1	1.02	0.17	1	1.1
ppdA	prepilin pe	0.83	0.04	1	1.26	0.26	1	0.98
	probable ai	0.89	0.1	1	1.13	0.17	1	1.16
menG	menaquino	1.11	0.09	1	1.29	0.15	1	1.15
aarF	ubiquinone	0.94	0.09	1	1.37	0.3	1	1.23
	putative re	1.17	0.13	1	0.73	0.11	1	0.77
pqaA	hypothetica	1.03	0.17	1	0.66	0.28	1	0.71
sfcA	NAD-linker	1	0.14	1	0.68	0.11	1	0.73
	putative hy	0.9	0.06	1	0.71	0.16	1	0.83
		0.93	0.1	1	0.72	0.07	1	0.82
hexR	putative he	1.05	0.07	1	0.77	0.19	1	0.92
yecD	putative hy	1	0.15	1	0.78	0.1	1	0.89
tesA	acyl-coA th	1.13	0.11	1	0.94	0.14	1	0.91
	conserved	1.02	0.14	1	1.07	0.14	1	0.9
sin, PTS system		0.32	0.04	1	1.02	0.15	1	n/a
acpD	acyl carrier	1.12	0.16	1	0.79	0.09	1	0.76
	putative isc	0.94	0.14	1	0.62	0.14	1	0.76
	conserved	1.06	0.1	1	0.75	0.08	1	0.75
narX	nitrate/nitrit	0.96	0.09	1	0.75	0.1	1	0.75
fadR	fatty acid-fa	1	0.1	1	0.83	0.18	1	0.8
	conserved	1.05	0.1	1	0.84	0.13	1	0.83
	conserved	0.92	0.04	1	0.76	0.22	1	0.76
priC		0.9	0.06	1	0.92	0.36	1	0.9
	possible m	0.94	0.12	1	1.04	0.12	1	1.26
	putative ty	0.99	0.09	1	1.03	0.08	1	1.13
	conserved	0.96	0.06	1	1	0.05	1	1.13

rdgC	recombinat	1.02	0.1	1	1.08	0.12	1	0.92
	possible ar	1.03	0.12	1	1.05	0.14	1	1.17
yfhD	putative ex	1.08	0.1	1	0.94	0.2	1	1.09
tctE	putative tw	1.05	0.11	1	1.06	0.1	1	1.09
	probable A	1	0.06	1	1.07	0.12	1	1.15
	the HAD superfamily	0.28	0.06	1	0.92	0.08	1	n/a
yidF	conserved	1.03	0.12	1	1.38	0.11	1	1.3
	putative lipi	0.92	0.13	1	1.08	0.12	1	1.03
	probable pl	0.43	0.16	1	0.92	0.18	n/a	0.91
emrA	multidrug ri	0.96	0.12	1	1.18	0.11	1	1.05
	conserved	0.82	0.06	1	1.21	0.12	1	1.07
bax	putative ex	0.91	0.08	1	1.2	0.13	1	1.19
kdtA	3-deoxy-D-	0.95	0.13	1	1.37	0.51	1	1.37
sdaB	L-serine de	0.84	0.08	1	1.04	0.09	1	1.19
ppdC	prepilin pe	0.98	0.19	1	1.11	0.16	1	1.17
yeiA		1.17	0.15	1	0.88	0.11	1	0.87
yejH	putative he	1.07	0.07	1	0.89	0.21	1	0.88
narP	nitrate/nitrit	1	0.08	1	1.02	0.21	1	0.92
	conserved	1.08	0.16	1	0.72	0.09	1	0.73
rpsH	30S ribosom	0.96	0.15	1	1.13	0.2	1	1.22
	conserved	1.09	0.11	1	1.23	0.27	0	0.84
poxB	pyruvate de	1.06	0.16	1	0.9	0.1	1	0.81
rplB	50S ribosom	1	0.16	1	1.12	0.13	1	1.35
yjeM	putative arr	1.07	0.18	1	1.17	0.18	1	1.14
rpsF	30s ribosom	1.06	0.16	1	1.13	0.12	1	1.22
glnE	adenyl-tran	0.96	0.11	1	1.11	0.11	1	1.2
	conserved	1.02	0.15	1	1.31	0.19	1	1.38
	putative me	1.05	0.1	1	1.2	0.11	1	1.13
	probable a	1	0.04	1	1.17	0.22	1	1.13
dcuA	anaerobic (	1.06	0.17	1	1.3	0.16	1	1.13
ampH	penicillin-bi	0.95	0.07	1	0.97	0.11	1	0.89
	putative su	1.03	0.08	1	1	0.16	1	0.86
yjeF	putative AE	1.02	0.07	1	0.87	0.09	1	0.83
yjeL	conserved	0.91	0.21	0	1.05	0.24	0	0.96
wcaE	putative gly	1.09	0.09	1	0.81	0.08	1	0.81
yohC	putative me	0.9	0.06	1	1.04	0.19	1	0.84
mtlR	mannitol op	0.96	0.14	1	1.34	0.1	1	1.21
yhjD	putative me	1.09	0.07	1	1.16	0.16	1	1.22
	conserved	1.14	0.13	1	1.08	0.11	1	1.24
	conserved	0.99	0.13	1	1.15	0.11	1	1.26
msbB	lipid A acyli	1.03	0.08	1	0.72	0.04	1	0.84
ssaJ	putative pa	1.02	0.2	1	0.7	0.09	1	0.8
	putative gly	1.09	0.16	1	0.81	0.09	1	0.9
	putative me	1.07	0.1	1	0.96	0.09	0	0.65
	regulator, LysR family	0.13	0.04	1	0.81	0.09	1	n/a
	ABC transp	0.98	0.07	1	0.81	0.19	1	0.83
ass I	anaerobic	0.18	0.04	1	0.92	0.1	1	n/a
ybhL		0.99	0.08	1	0.9	0.07	1	0.77
rotein		0.15	0.02	1	0.92	0.22	1	n/a
ttrA	tetrathionat	1.01	0.07	1	0.75	0.07	1	0.72
	putative me	1.05	0.07	1	1.23	0.2	1	1.22
yjfR	conserved	1.01	0.12	1	1.06	0.14	1	1.03



		0.24	0.03	1	1.04	0.38	n/a	n/a	
ssaE	putative se	0.92	0.11	1	0.7	0.03		1	0.81
	putative me	0.89	0.07	1	0.98	0.09		1	0.97
	conserved	1.01	0.1	1	0.87	0.1		1	0.96
yhfG	conserved	0.79	0.2	1	1.14	0.18		1	1.05
cbiN	putative co	1.01	0.18	1	0.81	0.07		1	0.84
phnW	2-aminoeth	1.03	0.14	1	1.01	0.06		1	0.77
rpsR	30s ribosor	1.07	0.2	1	1.03	0.23		1	1.18
rpmC	50S ribosor	1	0.12	1	1.19	0.22		1	1.44
relB	RelB protei	1.07	0.13	1	1.16	0.14		1	1.17
	probable lip	0.95	0.14	1	0.99	0.08		1	0.93
gshB	glutathione	0.95	0.05	1	1.2	0.09		1	1.1
dinI	damage-in	0.96	0.09	1	0.86	0.15		1	0.78
		0.93	0.11	1	1.12	0.18		1	1.1
ft		0.89	0.08	1	1.57	0.31		1	n/a
rotein		0.19	0.32	1	1.34	0.19		1	n/a
yheU	conserved	1.03	0.05	1	1.22	0.11		1	1.19
clpP	ATP-deper	1.07	0.13	1	1	0.09		1	0.89
cspH	putative co	1.09	0.08	1	0.66	0.15		1	0.77
	conserved	1.11	0.15	1	0.71	0.05		1	0.84
pncA	pyrazinami	1.05	0.12	1	0.77	0.04		1	0.76
rimI	ribosomal-γ	1.05	0.08	1	1.11	0.12		1	1.12
rbsR	ribose oper	0.96	0.13	1	1.39	0.41		1	1.36
	putative ex	1	0.1	1	0.75	0.09		1	0.87
	hypothetica	1.08	0.14	0	1.19	0.46		0	1.25
	hypothetica	0.72	0.13	1	1.02	0.3		0	0.79
	hypothetica	1.08	0.23	0	1.3	0.55		0	0.9
	hypothetica	1.05	0.11	0	1.06	0.49		0	1.02
	conserved	1.11	0.1	1	0.85	0.18		1	0.91
rotein		0.09	0.02	1	0.74	0.06	n/a		n/a
NA transport		0.06	0.02	1	0.64	0.08	n/a		n/a
rotein		0.1	0.03	1	0.66	0.1	n/a		n/a
		0.09	0.03	1	0.7	0.07	n/a		n/a
kinase / uridine kinase		0.02	0.01	1	0.72	0.11	n/a		n/a
ssembly		0.04	0.02	1	0.66	0.05	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
speF		1.11	0.13	1	0.99	0.1	n/a		0.9
		1.02	0.21	1	0.92	0.09		1	0.93
		1.03	0.25	0	1	0.22	n/a		n/a
		1.08	0.15	1	0.84	0.09	n/a		0.81
		0.2	0.05	1	0.84	0.09	n/a		n/a
		0.98	0.12	1	0.84	0.08	n/a		0.87
	putative en	14.4	4.99	1	n/a	n/a	n/a		0.77
	putative me	5.32	1.66	1	n/a	n/a	n/a		1.11
	hypothetica	5.28	0.55	1	n/a	n/a	n/a		1.49
insA	insertion el	10.7	5.51	1	n/a	n/a	n/a		0.87
	putative ba	5.67	1.47	1	n/a	n/a	n/a		1.08

kil	putative IS	5.44	1.75	1	n/a	n/a	n/a	1.04	
	putative ce	6.77	1.24	1	n/a	n/a	n/a	0.96	
	hypothetica	1.31	0.1	1		0.92	0.23	n/a	0.8
ompS1		1.07	0.15	1		1	0.09	n/a	0.9
	putative ph	5.92	0.96	1	n/a	n/a	n/a	1.16	
	putative lys	5.74	1.19	1	n/a	n/a	n/a	0.89	
	hypothetica	6.52	1.07	1	n/a	n/a	n/a	0.83	
	outer mem	0.81	0.16	0		1.41	0.73	n/a	0.69
	putative ex	9.36	1.39	1	n/a	n/a	n/a	0.87	
	putative rev	5.89	2.43	1	n/a	n/a	n/a	1.02	
	hypothetica	10.35	3.11	1	n/a	n/a	n/a	1.1	
	conserved	7.72	1.47	1	n/a	n/a	n/a	0.66	
	hypothetica	10.24	2.48	1	n/a	n/a	n/a	0.68	
	hypothetica	7.71	1.14	1	n/a	n/a	n/a	0.82	
	putative Gr	9.48	2.16	1	n/a	n/a	n/a	1.12	
		1.12	0.1	1		1.3	0.18	n/a	1.37
	hypothetica	9.56	2.68	1	n/a	n/a	n/a	0.61	
	putative lipi	11.68	2.31	1	n/a	n/a	n/a	0.66	
	hypothetica	9.04	2.03	1	n/a	n/a	n/a	0.66	
		1.54	0.24	1		1.05	0.09	n/a	1.06
hypothetica	31.49	11.51	1	n/a	n/a	n/a	1.14		
putative ex	28.75	4.6	1	n/a	n/a	n/a	1.06		
hypothetica	12.14	1.06	1	n/a	n/a	n/a	1.29		
hypothetica	32.35	6.6	1	n/a	n/a	n/a	1.03		
putative ph	1.39	0.16	1		1.04	0.07	1	1.11	
hypothetica	7.1	1.5	1	n/a	n/a	n/a	1.23		
	1.59	0.18	1		1.1	0.12	n/a	1.26	
yjhP	conserved	5.63	1.56	1	n/a	n/a	n/a	1.07	
pilK	putative ex	17.39	7.35	1	n/a	n/a	n/a	1.09	
	hypothetica	16.65	2.91	1	n/a	n/a	n/a	1.21	
	hypothetica	20.24	5.92	1	n/a	n/a	n/a	1.07	
panD	aspartate 1	1.1	0.2	1		1.08	0.17	1	1.17
rcsF	RcsF prote	1.06	0.19	1		0.92	0.18	1	0.82
		0.49	0.13	1		0.81	0.29	1	0.75
btuR	COB(l) alai	1.03	0.15	1		0.9	0.17	1	0.86
pstA	phosphate	0.96	0.16	1		1.33	0.14	1	1.29
yieO		1.09	0.1	1		1.29	0.14	1	1.37
nadR	conserved	0.94	0.1	1		1.13	0.15	1	1.15
cbiJ		0.89	0.1	1		0.84	0.23	1	0.86
rpsL	30S ribosoi	0.99	0.09	1		1.23	0.14	1	1.61
hemF	coproporph	0.87	0.08	1		0.9	0.35	1	1.1
	probable A	1.05	0.09	1		1.22	0.16	1	1.39
	possible Gi	1.01	0.07	1		1.16	0.15	1	1.45
yacA	conserved	0.98	0.11	1		1.19	0.37	n/a	1.07
yacK	possible m	1.06	0.09	1		1.05	0.2	1	0.97
sfsA	sugar ferm	0.92	0.05	1		0.97	0.11	1	1.03
yaeL	putative me	0.96	0.04	1		0.93	0.06	1	0.93
	putative me	0.87	0.04	1		0.74	0.16	1	0.79
hyaB2		0.96	0.03	1		0.73	0.17	1	0.87
perone, DnaJ family		0.09	0.02	1		0.87	0.11	1	n/a
		1	0.19	1		0.96	0.09	n/a	0.93
e		0.13	0.06	1		1.09	0.18	1	n/a

	conserved	1.02	0.19	1	1.16	0.44	0	0.9
ar	to retron in E coli	0.52	0.13	1	1.17	0.35	1	n/a
rotein		0.1	0.02	1	1.07	0.18	1	n/a
serB	putative ph	0.89	0.12	1	1.12	0.23	1	1.14
mltD	membrane	0.98	0.13	1	1.09	0.17	1	1.07
gmhA	phosphohe	0.96	0.07	1	1.11	0.2	1	1.04
regulator,	LysR family	0.11	0.02	1	0.91	0.18	1	n/a
	conserved	1.09	0.06	1	0.86	0.2	1	0.86
	putative AE	1.1	0.11	1	0.88	0.25	1	0.74
rotein		0.17	0.56	1	1.07	0.22	0	n/a
	conserved	0.89	0.07	1	0.95	0.2	0	0.77
	conserved	1.15	0.09	1	0.79	0.21	1	0.81
	conserved	0.99	0.04	1	1.05	0.37	1	0.77
	conserved	0.83	0.08	1	1.1	0.26	1	0.78
rotein		0.82	0.04	1	0.88	0.17	1	0.8
	putative me	1.24	0.21	1	0.66	0.3	1	0.78
rplR	50S riboso	1.08	0.13	1	1.04	0.32	1	1.37
argD	acetylornitr	0.98	0.21	1	1.25	0.16	1	1.25
feoA	putative fer	0.97	0.14	1	1.27	0.41	0	1.34
		0.35	0.12	0	1.25	0.38	n/a	n/a
-curing protein of phage		0.33	0.08	1	1.23	0.18	1	n/a
mukF	killing facto	1.02	0.05	1	0.79	0.12	1	0.8
		1.01	0.11	1	1.25	0.21	1	1.37
	hypothetica	1.02	0.08	1	1.28	0.11	1	1.32
yijD	putative me	0.97	0.17	0	1.33	0.17	0	1.35
	hypothetica	1.01	0.08	1	1.07	0.12	1	1.13
rotein		0.11	0.03	1	0.98	0.09	1	n/a
yijO	putative Ar	0.81	0.04	1	1.26	0.15	1	1.22
ne protein		0.24	0.07	1	1.04	0.19	1	n/a
slyA	putative re	0.81	0.12	1	1.1	0.11	1	1.28
vacJ	VacJ lipopr	0.96	0.06	1	0.83	0.12	1	0.96
		0.27	0.16	1	0.95	0.28	0	n/a
	putative me	1.03	0.11	1	0.9	0.21	1	0.82
aceK	isocitrate d	1.05	0.11	1	1.14	0.05	1	1.34
metB	cystathionii	1.07	0.1	1	1.25	0.18	1	1.24
argE	acetylornitr	1.12	0.07	1	1.35	0.07	1	1.36
nlpD	lipoprotein	1.1	0.05	1	1.12	0.13	1	1.15
		1.06	0.12	1	0.87	0.15	1	0.89
yfeF	putative ox	0.99	0.1	1	0.96	0.06	1	1.06
sspH2	secreted ef	0.93	0.1	1	0.8	0.08	n/a	0.89
hpcR	homoproto	1.09	0.08	1	0.87	0.13	1	0.84
	putative M	1.09	0.13	1	1.02	0.32	0	0.83
orn	oligoribonu	0.9	0.11	1	1.19	0.07	1	1.15
sgaH	putative he	0.79	0.09	1	1.23	0.16	1	1.13
osphate-requiring enzy		0.08	0.02	1	1.15	0.27	1	n/a
yojF	putative na	1	0.05	1	1.03	0.19	0	0.82
eductase		0.15	0.04	1	1.03	0.1	1	n/a
	conserved	0.95	0.07	1	1.1	0.1	1	1.16
tsr		0.92	0.09	1	1.08	0.15	1	1.18
cobB	putative re	1.11	0.06	1	0.86	0.1	1	0.75
sodC	copper-zinc	0.91	0.07	1	1.09	0.35	0	0.85
g		1.23	0.14	1	0.74	0.07	n/a	0.78

hopD	Type III lea	0.89	0.11	1	1.12	0.09	1	1.27
	putative etf	1.28	0.13	1	0.93	0.17	1	0.98
potC	spermidine	1.1	0.1	1	0.75	0.06	1	0.79
pfkB	6-phosphol	1.03	0.16	1	0.82	0.19	1	0.83
yjfl	conserved	0.98	0.17	1	1.28	0.26	0	1.51
potA	spermidine	0.92	0.16	1	0.79	0.23	1	0.84
bcfA	fimbrial sut	0.99	0.12	1	1.12	0.13	1	1.14
selD	selenophos	1.08	0.11	1	0.74	0.12	1	0.8
rpmI	50S riboso	1.06	0.16	0	1.24	0.39	0	0.93
ydhB	putative tra	0.91	0.06	1	0.68	0.09	1	0.65
livF	high-affinity	0.91	0.07	1	1.09	0.16	1	1.27
leuB	3-isopropyl	0.94	0.09	1	1.15	0.35	1	1.03
citA	citrate-prot	0.93	0.04	1	0.81	0.2	1	0.87
lamB	maltoporin	0.97	0.04	1	1.16	0.14	1	1.33
rbsC	high affinity	0.93	0.06	1	1.31	0.09	1	1.41
yadQ	putative me	1	0.09	1	1.04	0.1	1	0.92
ppiD	peptidyl-pro	0.93	0.08	1	0.96	0.11	1	0.91
yajB	conserved	1.12	0.17	1	1.07	0.2	1	1.04
	putative ex	1.09	0.09	1	1.17	0.17	1	1.23
	putative tra	1.17	0.1	1	0.84	0.13	1	0.88
	conserved	1.11	0.06	1	0.86	0.2	1	0.91
egulator, AraC family		0.11	0.02	1	0.74	0.19	1	n/a
	conserved	1.02	0.14	1	0.79	0.23	1	0.78
cld	polysaccha	0.94	0.15	1	0.73	0.08	1	0.93
yieG	putative me	0.93	0.1	1	1.35	0.19	1	1.43
	undecaprei	0.86	0.1	1	1.06	0.06	1	0.97
yeeA	putative me	1.04	0.05	1	0.76	0.12	1	0.84
mraY	phospho-N	0.97	0.05	1	1.04	0.11	1	0.88
purF	amidophos	0.92	0.11	1	0.9	0.2	1	1.08
rpoH	RNA polym	0.99	0.06	1	1.14	0.2	1	1.27
pnp	polynucleoi	0.87	0.06	1	1.11	0.23	1	1.39
hcaT	putative 3-φ	0.91	0.06	1	0.9	0.57	1	0.98
		0.38	0.11	1	1.05	0.31	n/a	n/a
lpxD	UDP-3-O-φ	1	0.09	1	1.02	0.16	1	0.93
ilar to phage tail compo		0.1	0.05	1	0.83	0.22	n/a	n/a
	putative req	1.04	0.14	1	1.33	0.11	1	1.39
dppD	dipeptide tr	1.13	0.09	1	1.23	0.11	1	1.22
ugpQ	glyceropho	1.1	0.11	1	1.22	0.14	1	1.28
spoT	guanosine-	0.95	0.16	1	1.28	0.13	1	1.37
	putative tra	0.97	0.13	1	1.21	0.27	1	0.9
cadC	transcriptio	0.94	0.08	1	0.96	0.12	1	1.12
	putative ex	0.93	0.15	1	0.92	0.31	0	1.15
glnH	glutamine-l	1.1	0.15	1	0.93	0.17	1	0.87
	conserved	0.98	0.08	1	1.01	0.1	1	0.91
	ornithine ca	1.08	0.08	1	1.2	0.1	1	1.27
srmB	ATP-deper	0.99	0.1	1	1.17	0.12	1	1.15
ribB	3,4-dihydro	1.01	0.09	1	1.12	0.17	1	1.24
tyrB	aromatic-al	0.86	0.07	1	1.17	0.06	1	1.24
asrB	anaerobic s	0.97	0.09	1	0.95	0.14	1	1.11
hisG	ATP phosp	0.96	0.04	1	0.86	0.23	1	0.87
fimZ	probable tr	0.92	0.03	1	0.93	0.11	1	0.86
yihX	putative ha	0.87	0.07	1	1.31	0.19	1	1.37

potI	putrescine	1.03	0.03	1	0.94	0.09	1	0.77
phrB	deoxyribod	0.97	0.18	1	0.94	0.09	1	0.88
	hypothetica	0.91	0.12	1	1.27	0.13	1	1.3
nagD	NagD prote	1.02	0.13	1	0.88	0.11	1	0.88
nei	endonuclea	0.96	0.18	1	1.02	0.25	1	0.84
metF	5,10 methy	1.12	0.18	1	1.23	0.17	1	1.3
soxR	SoxR prote	0.92	0.12	1	1.27	0.17	1	1.31
		1.03	0.2	1	1.29	0.22 n/a		1.01
hmpA	flavoheмо	0.99	0.19	1	0.91	0.12	1	1.05
	probable se	1.08	0.15	0	1.47	0.45	0	0.95
thiC	thiamine bi	0.83	0.04	1	1.3	0.15	1	1.41
yihU	putative ox	1	0.1	1	1.46	0.13	1	1.53
rotein		0.92	0.09	1	1.42	0.34	0 n/a	
stpA	tyrosine ph	0.84	0.05	1	0.95	0.11	1	1.19
plsX	fatty acid/p	0.98	0.07	1	0.78	0.09	1	0.81
rnb	exoribonuc	0.9	0.08	1	0.63	0.08	1	0.75
sfhB	ftsH suppre	0.91	0.04	1	1.08	0.17	1	1.17
lytB	LytB proteii	0.92	0.04	1	1.12	0.18	1	1.16
	putative ba	0.94	0.08	0	1.55	0.35	0	0.69
	putative gly	1	0.12	1	1.26	0.2	1	1.31
	putative pa	1.06	0.08	1	0.69	0.09	1	0.76
	conserved	1.09	0.12	1	0.83	0.16	1	0.77
stop following codon 2:		1.12	0.14	1	1.08	0.2 n/a	n/a	
	phosphatid	1.05	0.13	1	1.25	0.32	1	0.94
ogt	O6-methylc	0.97	0.17	1	0.73	0.14	1	0.85
	putative se	0.87	0.08	1	0.69	0.08	1	0.78
	conserved	0.94	0.1	1	0.81	0.11	1	0.85
narL	nitrate/nitrit	0.99	0.14	1	0.8	0.14	1	0.82
ptr	protease III	0.93	0.05	1	1.11	0.1	1	1.18
ygbP	2-C-methyl	0.84	0.06	1	1.02	0.1	1	1.13
	DeoR-fami	0.97	0.08	1	1.11	0.19	1	1.09
scsB	membrane	1.05	0.09	1	0.97	0.12	1	0.8
apaH	bis(5'-nucl	0.91	0.06	1	0.96	0.08	1	0.96
yifK	probable ai	0.95	0.05	1	1.28	0.09	1	1.22
gppA	guanosine-	0.89	0.05	1	1.39	0.25	1	1.33
rplJ	50S riboso	0.96	0.06	1	1.21	0.57	1	1.4
minD	septum site	0.95	0.04	1	0.91	0.18	0	0.9
	putative ex	1.08	0.27	1	0.78	0.11	1	0.72
cheW	purine bind	1.15	0.13	1	0.81	0.09	1	0.78
pepE	peptidase E	0.99	0.08	1	1.19	0.11	1	1.28
phnX	phosphono	0.98	0.11	1	1	0.14	1	0.91
yiiL	conserved	1.2	0.18	1	1.31	0.22	1	1.49
metR	trans-activa	0.87	0.15	1	1.33	0.2 n/a		1.36
	conserved	0.93	0.18	1	0.89	0.13	1	0.99
	conserved	1.04	0.18	1	0.88	0.2	1	0.75
narZ	respiratory	1.09	0.09	1	0.8	0.15	1	0.75
tehA	tellurite res	1.06	0.13	1	0.71	0.04	1	0.77
sseJ	secreted ef	0.21	0.06	1	0.77	0.19	1	0.74
	putative lipi	1.15	0.08	1	0.85	0.31	1	0.81
acrA	acriflavin re	0.91	0.06	1	0.99	0.08	1	0.91
	membrane	0.98	0.05	1	0.67	0.06	1	0.74
	putative me	0.95	0.05	1	0.69	0.15	1	0.75

	putative lipi	0.91	0.05	1	0.85	0.12	1	0.8
ybdR	hypothetica	0.97	0.08	1	0.92	0.13	1	0.87
	conserved	1.05	0.08	1	0.74	0.25	1	0.74
rotein		0.52	0.08	0	0.83	0.2	0	n/a
		0.24	0.08	1	0.68	0.09	1	n/a
	putative pe	1.02	0.15	1	0.79	0.13	1	0.82
	conserved	0.99	0.14	1	0.96	0.16	n/a	0.79
rotein		0.2	0.06	1	0.72	0.1	1	n/a
exoX	exodeoxyri	1.09	0.09	1	0.84	0.13	1	0.85
fucO	1,2-propan	1.1	0.09	1	1	0.23	1	1.17
	conserved	0.96	0.12	1	1.13	0.18	1	1.12
serA	D-3-phospl	0.98	0.07	1	1.04	0.25	1	1.16
endA	endonuclea	1.04	0.07	1	1.13	0.06	1	1.21
yajG	putative lipi	0.99	0.04	1	0.9	0.04	1	0.95
	putative me	1.01	0.03	1	1.19	0.04	1	1.06
yhjN	putative po	0.92	0.05	1	1.28	0.16	1	1.19
yaR	putative su	0.83	0.05	1	1.25	0.12	1	1.32
	2,3-bisphos	0.95	0.07	1	1.24	0.14	1	1.37
ygcY	probable gl	0.92	0.06	1	1.04	0.11	1	1.08
	N-acetylm	0.91	0.03	1	1.03	0.09	1	1.15
lysS	lysyl tRNA	0.9	0.09	1	1.01	0.09	1	1.19
	putative ex	1.04	0.12	1	1.22	0.16	1	1.24
ygdD	conserved	1.07	0.16	1	1.17	0.21	1	1.15
		0.89	0.11	0	1.35	101.33	0	0.94
rotein		0.2	0.04	1	1.41	0.37	0	n/a
	probable tv	0.93	0.18	1	1.2	0.36	1	1.32
araE	L-arabinosi	0.94	0.07	1	1.01	0.11	1	1.07
	putative lipi	1.04	0.13	1	0.93	0.21	1	0.94
rfbD	dTDP-4-de	0.94	0.07	1	0.79	0.11	1	0.91
yehT	putative tw	1.02	0.08	1	0.84	0.1	1	0.93
ybjX	putative vir	1.01	0.08	1	0.86	0.1	1	0.82
xyIR	xylose ope	0.96	0.08	1	1.29	0.07	1	1.31
	conserved	1.22	0.21	1	1.21	0.3	0	1.25
	putative ex	0.89	0.01	1	1.32	0.12	1	1.29
	conserved	0.97	0.06	1	1.46	0.21	1	1.33
greB	transcriptio	0.97	0.06	1	1.12	0.09	1	1.39
folP	dihydropter	1.09	0.11	1	1.04	0.1	1	1.23
deoB	phosphope	0.94	0.03	1	0.99	0.14	1	1.1
ystem protein		0.08	0.02	1	0.92	0.08	1	n/a
truB	tRNA pseu	0.85	0.11	1	1.27	0.15	1	1.41
	conserved	0.98	0.17	1	1.11	0.13	1	1.35
	conserved	1.12	0.18	1	1.04	0.45	1	1.12
luxS	autoinduce	1.05	0.11	1	1.12	0.19	1	1.22
yohJ	putative me	1.05	0.08	1	0.92	0.16	1	0.98
yejG	conserved	1.1	0.1	1	0.93	0.25	0	0.97
yejD	ribosomal s	0.97	0.12	1	0.96	0.18	1	0.85
mrp	conserved	0.99	0.09	1	0.87	0.12	1	1.03
	conserved	1.06	0.12	1	1.08	0.16	1	0.86
rplF	50S riboso	0.99	0.08	1	1.17	0.14	1	1.49
ppiA	peptidyl-prc	1.13	0.1	1	1.16	0.11	1	1.23
hflK	HflK proteir	0.97	0.05	1	1.08	0.1	1	1.09
cigR		1.02	0.04	1	1.37	0.14	1	1.41



		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		0.18	0.02	1	0.88	0.13	n/a	n/a
ilar to tail assembly pro		0.08	0.02	1	0.94	0.11	1	n/a
		1.08	0.07	1	0.89	0.06	n/a	0.75
		0.15	0.05	1	1.04	0.12	n/a	n/a
		0.22	0.1	1	1.2	0.3	n/a	n/a
		1.02	0.09	1	0.94	0.15	n/a	1
	hypothetica	14.72	7.27	1	n/a	n/a	n/a	1.07
	conserved	6	1.41	1	n/a	n/a	n/a	0.96
rfbE	CDP-tyvelc	10.54	5.21	1	n/a	n/a	n/a	0.88
	putative ph	3.85	0.8	1	n/a	n/a	n/a	1.29
	putative se	7.67	1.61	1	n/a	n/a	n/a	1.36
	hypothetica	1.61	0.27	1	n/a	n/a	n/a	0.88
		4.06	1.63	1	1.23	0.19	n/a	1.15
	possible lip	13.34	5.12	1	n/a	n/a	n/a	1.32
	putative ph	3.06	0.37	1	n/a	n/a	n/a	1.14
yiiF	putative Cc	3.74	1.34	1	n/a	n/a	n/a	1.31
	hypothetica	7.23	3.71	1	n/a	n/a	n/a	0.78
	hypothetica	9.8	2.19	1	n/a	n/a	n/a	0.74
	hypothetica	4.84	0.7	1	n/a	n/a	n/a	1.35
nucE	possible se	2.51	0.22	1	n/a	n/a	n/a	1.12
	putative po	4.64	1.42	1	n/a	n/a	n/a	1.02
staF	putative fir	11.7	4.84	1	n/a	n/a	n/a	0.92
	hypothetica	3.16	0.9	1	n/a	n/a	n/a	0.95
	hypothetica	1.07	0.08	1	0.99	0.11	n/a	0.86
	putative mε	7.95	3.03	1	n/a	n/a	n/a	1.09
	hypothetica	1.61	0.12	1	1.17	0.39	n/a	1.15
staD	putative fir	13.92	1.38	1	n/a	n/a	n/a	0.93
	Rhs-family	12.15	7.7	1	n/a	n/a	n/a	0.71
	conserved	5.28	2.48	1	n/a	n/a	n/a	0.87
	putative ba	5.01	0.62	1	n/a	n/a	n/a	0.73
	putative DN	10.46	2.41	1	n/a	n/a	n/a	1.24
vexC	Vi polysacc	19.41	3.4	1	n/a	n/a	n/a	1.08
	putative mε	9.97	8.92	1	n/a	n/a	n/a	1.08
	hypothetica	11.85	2.3	1	n/a	n/a	n/a	1.14
	putative mε	1.6	0.12	1	1.23	0.13	n/a	1.04
	putative reϕ	10.57	4.62	1	n/a	n/a	n/a	1.13
	hypothetica	4.54	0.65	1	n/a	n/a	n/a	1.27
	hypothetica	1	0.05	1	1.27	0.11	n/a	1.21
	hypothetica	19.75	1.77	1	n/a	n/a	n/a	1.14
	hypothetica	7.67	0.94	1	n/a	n/a	n/a	1.07
	phage DN/	13.66	2.86	1	n/a	n/a	n/a	1.11
	hypothetica	7.16	0.47	1	n/a	n/a	n/a	1.07
mrcB	penicillin-bi	0.96	0.13	1	1.07	0.18	1	1.07
asnB	asparagine	0.85	0.07	1	0.92	0.13	1	0.91
kdpE	KDP opero	0.91	0.1	1	0.89	0.08	1	0.98
	putative mε	0.57	0.06	1	1.24	0.1	1	1.55
cbiG	CbiG prote	1.01	0.06	1	0.84	0.08	1	0.95
uhpB	two-compo	0.91	0.06	1	1.32	0.2	1	1.4
ne protein		0.17	0.05	1	1.55	0.23	1	n/a
asnA	asparagine	0.89	0.03	1	1.5	0.06	1	1.61
	putative gly	0.95	0.06	1	1.07	0.07	1	1.16



ilvI	acetolactat	0.93	0.09	1	0.98	0.13	1	0.95
	putative sy	0.94	0.05	1	1.03	0.15	1	0.99
		0.1	0.02	1	1.2	0.47	1	n/a
arcB	aerobic res	0.92	0.1	1	1.03	0.17	1	1.32
tldD	TldD protei	0.98	0.08	1	1.05	0.13	1	1.32
cspE	cold shock	0.96	0.18	1	1.17	0.4	0	1.03
otein		0.14	0.05	1	0.83	0.14	1	n/a
glnS	glutaminyl-	0.97	0.13	1	0.96	0.04	1	0.98
	conserved	0.98	0.08	1	0.82	0.16	1	0.82
proS	prolyl-tRNA	0.93	0.08	1	1.06	0.13	1	0.91
	putative re	1	0.15	1	0.73	0.2	1	0.83
wcaC	putative gly	0.9	0.13	1	1.1	0.46	1	0.89
sthE		0.92	0.11	1	1.19	0.2	1	1.08
otein		0.34	0.11	1	1.05	0.43	0	n/a
proB	glutamate t	0.89	0.08	1	1.08	0.45	1	0.94
ar to tail fiber protein (g		0.63	0.14	1	1.28	0.22	1	n/a
ne protein		0.6	0.09	1	0.99	0.05	1	0.92
peptide/nickel ABC-ty		0.09	0.03	1	1.04	0.12	1	n/a
virK	virulence p	0.89	0.09	1	1.15	0.07	1	1.34
pipA	conserved	0.99	0.13	1	0.82	0.26	1	0.91
yccD	conserved	1.08	0.13	1	0.92	0.28	0	0.83
		0.37	0.06	1	1	0.13	n/a	n/a
	conserved	0.95	0.1	1	1.04	0.07	1	1.26
hpcC		1.04	0.08	1	0.86	0.3	1	0.72
fkpA	FKBP-type	0.81	0.14	1	1.2	0.13	1	1.4
yrfA	conserved	0.84	0.05	1	1.1	0.12	1	1.23
	putative se	0.96	0.1	1	1.1	0.43	0	0.84
cedA	cell divisio	0.98	0.12	1	1.26	0.39	0	0.82
	conserved	1.08	0.1	1	0.86	0.18	1	0.73
fabF	3-oxoacyl-]	0.99	0.05	1	0.8	0.05	1	0.83
	ABC trans	0.96	0.1	1	0.92	0.14	1	0.78
	hypothetic	0.89	0.1	1	1.05	0.35	0	0.89
yhhP	conserved	0.97	0.11	1	1.25	0.07	1	1.35
		0.12	0.03	1	0.92	0.13	1	n/a
nt transporter		0.13	0.04	1	1.27	0.15	1	n/a
pgi	glucose-6-]	0.81	0.06	1	1.27	0.22	1	1.22
yjcC	putative ex	0.95	0.1	1	1.21	0.14	1	1.3
melR	melibiose c	0.98	0.05	1	1.12	0.14	1	1.24
	putative lip	0.86	0.12	1	0.91	0.13	1	1.14
aphA	class B aci	0.81	0.1	1	1.13	0.09	1	1.3
yjcO	putative ex	0.97	0.11	1	1.19	0.1	1	1.33
aspA	aspartate a	0.89	0.11	1	1.11	0.13	1	1.3
artI	arginine-bir	0.94	0.06	1	0.98	0.16	1	0.84
live major tail protein		0.08	0.01	1	0.81	0.13	1	n/a
	prismane p	0.83	0.1	1	0.91	0.11	1	0.87
	putative ca	0.84	0.05	1	1.29	0.14	1	1.27
urein transglycosylase		0.11	0.02	1	1.22	0.14	1	n/a
rotein		0.57	0.2	0	1.33	0.4	0	n/a
yjeJ	hypothetic	0.97	0.09	1	1.19	0.09	1	1.36
potG	putrescine	1	0.08	1	0.85	0.11	1	0.8
		0.08	0.02	1	0.81	0.14	n/a	n/a
hemL	glutamate-	0.74	0.09	1	1.18	0.27	1	1.02

prpC	methylcitra	0.89	0.08	1	0.98	0.14	1	0.92
aroH	3-deoxy-D-	0.97	0.08	1	0.79	0.12	1	0.84
ftnA	ferritin	1.13	0.23	0	1.37	0.39	0	0.88
yedJ	conserved	0.93	0.11	1	0.75	0.07	1	0.86
rscC	sensor prot	0.92	0.09	1	0.9	0.07	1	0.97
phosphate-requiring en.		0.11	0.04	1	0.95	0.12	1	n/a
menF	isochorism	0.98	0.08	1	0.88	0.3	1	0.97
	conserved	0.88	0.09	1	0.92	0.29	1	1.07
	putative pr	0.93	0.1	1	0.73	0.12	1	0.88
rpoS	RNA polym	0.93	0.1	1	1.29	0.35	1	1.32
btuF	cobalamin	0.87	0.09	1	0.98	0.08	1	0.98
ilar to integrase in phag		0.12	0.03	1	0.94	0.1	1	n/a
btuC	vitamin B12	1.08	0.08	1	0.78	0.11	1	0.79
mgsA	methylglyo:	0.91	0.09	1	0.85	0.14	1	0.86
sprA	possible Ar	0.88	0.08	1	1.12	0.37	1	1.22
cytR	transcriptio	0.99	0.06	1	1.24	0.06	1	1.44
pgsA	phosphotid	0.92	0.09	1	0.82	0.07	1	0.78
invG	secretory p	0.99	0.09	1	1.03	0.15	1	1.25
sodB	superoxide	1.05	0.09	1	0.69	0.12	1	0.72
csgA	major curlir	1.06	0.12	1	0.8	0.05	1	0.77
mutM	formamido	0.9	0.07	1	1.34	0.11	1	1.39
waaY	lipopolysac	0.82	0.09	1	1.46	0.15	1	1.48
	putative ex	0.96	0.14	1	0.75	0.25	1	0.81
fumA	Fumarate h	0.9	0.1	1	0.72	0.18	1	0.83
dmsA2	putative dir	0.93	0.14	1	0.7	0.22	1	0.78
	putative ca	0.9	0.08	1	1.34	0.25	1	1.37
	possible hy	0.87	0.13	1	1.02	0.11	1	1.13
	AraC-famil	0.93	0.11	1	0.97	0.11	1	1
	putative inr	0.94	0.08	1	0.82	0.09	1	0.77
sbcB	exodeoxyri	0.91	0.08	1	0.86	0.11	1	0.91
ftsZ	cell divisio	0.91	0.1	1	1.17	0.38	1	1.08
nuoG	NADH dehy	0.92	0.07	1	0.82	0.12	1	0.96
gpt	xanthine-gu	0.93	0.09	1	0.93	0.08	1	0.98
fliQ	flagellar bic	1.04	0.21	0	1.21	0.09	0	0.87
	putative req	0.83	0.1	1	0.73	0.11	1	0.79
rpsG	30S riboso	0.91	0.09	1	1.1	0.08	1	1.35
yidY	putative me	0.78	0.1	1	1.27	0.09	1	1.36
yail	conserved	0.85	0.13	1	1.06	0.1	1	0.94
cyoC	cytochrome	0.88	0.13	1	1.17	0.26	1	1
	putative so	0.92	0.06	1	1.08	0.09	1	1.23
	conserved	0.96	0.12	1	0.8	0.03	1	0.96
gatA	PTS system	0.64	0.12	1	1.13	0.13	1	1.34
rotein		0.8	0.13	1	0.96	0.31	0	n/a
	Orf 245 pr	1.04	0.11	1	0.68	0.16	1	0.91
xseA	exodeoxyri	0.85	0.07	1	0.94	0.18	1	1.09
	putative me	0.99	0.12	1	0.99	0.24	1	0.8
	hypothetica	0.81	0.12	1	1.05	0.1	1	1.29
	putative me	0.94	0.04	1	1.11	0.16	1	1.24
ygjO	conserved	1	0.1	1	1.06	0.14	1	1.23
yraN	conserved	1	0.11	1	1.22	0.19	1	1.28
rotein		0.19	0.04	1	1.14	0.08	1	n/a
	putative req	0.97	0.13	1	0.74	0.08	1	0.89

	conserved	0.96	0.05	1	0.89	0.09	1	0.88
	putative lipi	0.92	0.04	1	0.95	0.25	1	1.03
miaE	tRNA hydr	0.89	0.07	1	1.09	0.09	1	1.31
ygaE	putative tra	0.93	0.1	1	1.01	0.1	1	1.2
iadA	probable is	0.88	0.07	1	1.2	0.25	1	1.21
sthA	putative fir	1	0.1	1	1.11	0.16	1	1.2
se, alpha subunit		0.85	0.11	1	1.19	0.1	1	1.32
	putative re	0.99	0.1	1	0.84	0.18	1	0.82
sapB	peptide tra	0.91	0.11	1	0.76	0.09	1	0.78
rhaS	L-rhamnos	0.96	0.11	1	1.41	0.16	1	1.44
yihG	putative ac	0.92	0.13	1	1.24	0.15	1	1.48
ybhP	conserved	0.99	0.05	1	0.86	0.2	1	0.91
bioD	dethiobiotir	0.96	0.1	1	0.93	0.09	1	0.82
apaG	CorD prote	0.92	0.06	1	1.03	0.07	1	1.09
yiiG	putative lipi	0.89	0.05	1	1.2	0.18	1	1.53
ybeA	conserved	0.97	0.1	1	1.08	0.2	1	0.96
gloB	probable h	0.99	0.15	1	0.87	0.04	1	0.94
aroA	3-phospho:	0.94	0.08	1	0.94	0.2	1	0.81
argT	lysine-argir	0.89	0.05	1	0.93	0.16	1	1.03
smpA	small prote	0.97	0.07	1	0.93	0.1	1	1.14
citD2	citrate lyas	1.03	0.13	1	1.08	0.13	1	0.86
	hypothetica	1.05	0.2	1	1.32	0.29	0	0.89
	hypothetica	0.81	0.11	0	1.01	0.67	0	0.89
prlC	oligopeptid	0.9	0.12	1	1.27	0.14	1	1.38
		0.91	0.08	1	0.92	0.1 n/a		0.87
dcuR	two-compo	0.91	0.16	1	1.1	0.15	1	1.38
yecH	conserved	0.87	0.09	1	0.74	0.07 n/a		0.86
	putative me	1	0.09	1	0.72	0.08	1	0.75
rseC	sigma-E fa	1.02	0.13	1	0.95	0.07	1	1.13
csgG	assembly/t	0.97	0.1	1	0.73	0.09	1	0.76
barA	sensor prot	0.93	0.13	1	1.13	0.12	1	1.23
ne protein		0.32	0.03	1	0.98	0.23 n/a		1.01
amine biosynthesis		0.75	0.16	0	1.26	0.21	0 n/a	
	hypothetica	0.62	0.07	0	1.31	0.2	0	1.1
ftsJ	cell divisor	0.89	0.08	1	1.03	0.16	1	1.27
pduQ	putative pro	0.68	0.07	1	1.05	0.19	1	0.84
nrfC	cytochrome	1.07	0.07	1	1.06	0.06	1	1.1
fliL	FliL protein	0.87	0.04	1	0.91	0.16	1	0.85
dcp	dipeptidyl c	0.9	0.12	1	0.61	0.09	1	0.67
btuB	vitamin B1:	0.9	0.07	1	1.27	0.19	1	1.3
ahpF	alkyl hydro	0.92	0.11	1	0.98	0.02	1	0.85
oppC		0.92	0.11	1	0.67	0.04	1	0.63
ydeV	putative su	0.91	0.11	1	1.31	0.17	1	1.36
ysgA	putative hy	0.96	0.13	1	1.35	0.19	1	1.22
uvrD	DNA helica	0.91	0.12	1	1.31	0.24	1	1.19
yabF	putative N/	0.82	0.14	1	1.2	0.11	1	1.09
	conserved	0.87	0.09	1	1.23	0.11	1	1.3
fliH	flagellar as	0.83	0.07	1	0.77	0.05	1	0.8
cysK	cysteine sy	0.9	0.1	1	0.9	0.15	1	0.93
		0.91	0.06	1	0.99	0.15	1	0.99
	hypothetica	1.01	0.03	1	0.74	0.11	1	0.76
	conserved	0.83	0.06	1	1.05	0.2	1	1.15

	putative 6-φ	0.9	0.13	1	1.08	0.07	1	1.22
	hypothetica	0.94	0.07	1	1.37	0.2	1	1.44
flhE	flagellar pro	0.93	0.05	1	0.8	0.09	1	0.83
	putative me	1.02	0.03	1	0.69	0.08	1	0.78
	hypothetica	0.61	0.05	1	0.88	0.55	1	0.84
gdhA	glutamate c	0.83	0.16	1	0.65	0.17	1	0.86
manX	PTS system	0.97	0.09	1	0.7	0.08	1	0.93
pphA	serine/threi	0.89	0.11	1	0.77	0.12	1	0.82
ntpA	DATP pyro	0.94	0.11	1	0.73	0.28	0	0.92
artM	arginine tra	0.86	0.08	1	0.79	0.08	1	0.84
	probable m	0.98	0.08	1	1.02	0.15	1	0.86
aspC	aspartate a	0.87	0.09	1	0.83	0.04	1	0.86
fepE		0.89	0.09	1	1.08	0.24	1	0.93
stbC	outer mem	0.85	0.08	1	1.06	0.12	1	1.1
	putative an	0.95	0.12	1	0.71	0.11	1	0.72
oppA	periplasmic	1.04	0.08	1	0.69	0.21	1	0.78
hyaA		1.01	0.08	1	0.72	0.04	1	0.86
	conserved	0.96	0.07	1	0.79	0.19	1	0.88
	probable p	0.88	0.04	1	0.73	0.07	1	0.76
	putative ox	1.01	0.09	1	0.64	0.07	1	0.7
	probable se	0.87	0.05	1	0.91	0.11	1	0.87
	possible ar	0.9	0.05	1	1.06	0.17	1	1.21
		0.34	0.07	1	0.92	0.11 n/a	n/a	
	hypothetica	0.95	0.04	1	1.03	0.11	1	0.91
secF	protein-exp	1.01	0.1	1	1.03	0.17	1	0.87
hybB	probable h	0.92	0.12	1	1.06	0.11	1	1.11
ygaD	conserved	0.97	0.08	1	1.04	0.29	1	1.07
	putative lac	0.74	0.07	1	1.47	0.36	1	1.19
ructose-6-phosphate a		0.13	0.05	1	1.11	0.13	1 n/a	
	putative be	0.75	0.08	1	1.32	0.13	1	1.34
ne protein		0.13	0.04	1	1.11	0.16	1 n/a	
ygeD	putative me	0.94	0.16	1	1.05	0.14	1	1.04
tktA	transketola	0.82	0.1	1	1.05	0.16	1	1.2
hycl	hydrogena	0.88	0.06	1	1.07	0.08	1	1.15
yaF	conserved	0.93	0.06	1	1.32	0.1	1	1.39
aldB	aldehyde d	0.93	0.04	1	1.3	0.12	1	1.2
	putative tra	1.03	0.09	1	1.25	0.1	1	1.27
fucR	l-fucose op	0.76	0.06	1	1.08	0.15	1	1.13
stdA	probable fir	0.6	0.07	1	1	0.14	1	1.23
lysP	lysine-spec	1.09	0.06	1	0.88	0.13	1	0.78
		0.07	0.01	1	0.75	0.11	1 n/a	
	putative me	0.96	0.13	1	0.78	0.08	1	0.99
dut	deoxyuridir	0.93	0.09	1	1.28	0.12	1	1.35
rpIV	50S riboso	0.9	0.07	1	1.19	0.05	1	1.42
hflC	HflC protei	0.98	0.08	1	1.2	0.1	1	1.14
rpIQ	50S riboso	0.96	0.09	1	1.07	0.11	1	1.25
ybjY	putative ex	0.98	0.11	1	0.9	0.09	1	0.79
purA	adenylosuc	0.87	0.05	1	1.06	0.1	1	1.26
	conserved	0.94	0.1	1	1.1	0.11	1	1.11
hybA	hydrogena	0.95	0.08	1	1.06	1.01	1	1.22
srlE	PTS system	0.94	0.1	1	1.06	0.92	1	1.14
	hypothetica	1.03	0.06	1	1.08	0.09	1	1.04

radA	putative DN	0.95	0.1	1	1.17	0.11	1	1.11
prt ATPase		0.1	0.03	1	0.95	0.14	1	n/a
	putative ex	0.9	0.07	1	1.02	0.11	1	1.12
yeiO	sugar efflu:	0.97	0.07	1	0.87	0.06	1	0.83
rfbH	putative de	0.91	0.05	1	0.85	0.15	1	0.97
rfbF	glucose-1- $\pi$	1.1	0.08	1	0.82	0.09	1	0.95
stcA	putative fir	0.98	0.09	1	0.82	0.11	1	0.97
narK	nitrite extru	0.93	0.1	1	0.74	0.08	1	0.76
	putative ca	1.02	0.06	1	1.26	0.11	1	1.35
	putative me	1.07	0.09	1	1.14	0.12	1	1.31
	possible kir	1	0.12	1	1.16	0.19	1	1.24
	putative me	1.01	0.08	1	1.16	0.13	1	1.28
sseE	putative pa	1.05	0.08	1	0.64	0.06	1	0.79
scsD	secreted pr	0.98	0.12	1	0.83	0.1	1	0.8
hutH	histidine ar	0.92	0.13	1	1	0.17	1	0.79
ybiS	putative ex	1.01	0.1	1	0.89	9.64	1	0.79
visB	2-octapren	0.9	0.11	1	1.09	0.09	1	1.1
hpcB	3,4-dihydro	1	0.13	1	0.81	0.06	1	0.79
hutI	imidazoloni	0.94	0.09	1	0.98	0.07	1	0.72
	putative me	0.98	0.06	1	0.91	0.18	1	0.78
ugtL	putative me	1.04	0.08	1	0.84	0.22	1	0.8
	PTS-transp	1.02	0.09	1	1	0.12	1	1.26
	possible lip	0.99	0.05	1	1.08	0.09	1	1.31
eutS	putative eth	1.1	0.06	1	1	0.16	1	0.92
pmrD	polymyxin I	1.04	0.11	1	0.85	0.12	1	1
glmU	UDP-N-ace	0.95	0.06	1	1.33	0.04	1	1.23
xseB	exodeoxyri	0.98	0.1	1	1.04	0.16	1	1.09
nrdH	putative glu	0.81	0.08	1	0.95	0.1	1	1.03
	conserved	0.95	0.15	1	0.95	0.09	1	0.93
mp	oxaloacetate decar	0.46	0.07	1	1.01	0.04	n/a	n/a
rplX	50S riboso	0.94	0.12	1	1.16	0.07	1	1.46
rpsQ	30S riboso	0.87	0.1	1	1.16	0.15	1	1.39
ytfH	conserved	0.89	0.13	1	1.11	0.08	1	1.17
yehE	conserved	0.97	0.11	1	0.87	0.16	1	0.88
araH		0.62	0.1	1	0.75	0.06	1	0.78
	putative lipi	1	0.05	1	0.79	0.05	1	0.77
yfiM	conserved	1.04	0.08	1	0.97	0.13	1	1.11
	conserved	1.15	0.08	1	0.64	0.05	1	0.76
ame	stops relative to E.	0.83	0.12	1	1.11	15.31	0	n/a
rpmE	50S riboso	1.08	0.11	1	1.25	0.05	1	1.47
	hypothetica	0.87	0.1	1	1.16	0.16	1	1.43
clpX	ATP-deper	1.03	0.05	1	0.98	0.04	1	0.87
	conserved	0.94	0.03	1	0.74	0.19	1	0.81
	conserved	1.04	0.14	1	0.74	0.13	1	0.82
ar	to genes in P2-like p	0.59	0.1	1	0.95	0.05	1	0.96
rof	ROF protei	1.1	0.33	0	1.34	0.34	0	1.26
	putative me	0.98	0.06	1	1.04	0.09	1	1.2
ccmD1	heme expo	1.04	0.16	0	1.45	0.22	n/a	0.85
	hypothetica	0.98	0.19	1	1.29	0.35	0	0.96
	hypothetica	1.01	0.11	1	1.06	0.39	0	0.77
	hypothetica	0.98	0.08	0	1.42	0.2	0	1
	conserved	1.02	0.1	1	0.73	0.26	1	0.83

rotein	0.97	0.12	1	0.78	0.04	1	n/a	
	0.04	0.01	1	0.6	0.07	n/a	n/a	
IS200-like	0.1	0.02	1	0.62	0.11	n/a	n/a	
ssembly	0.02	0.01	1	0.62	0.04	n/a	n/a	
ulence: hydrophilic proi	0.03	0.01	1	0.66	0.07	n/a	n/a	
ssembly	0.03	0.01	1	0.64	0.04	n/a	n/a	
raie; major fimbrial subi	0.04	0.01	1	0.63	0.07	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	0.12	0.08	1	0.86	0.21	n/a	n/a	
PTR2-fami	0.94	0.09	1	0.9	0.11	1	0.75	
	1.02	0.09	1	0.94	0.06	n/a	0.89	
hypothetica	1.05	0.09	1	0.86	0.09	1	0.65	
	0.09	0.03	1	0.85	0.11	n/a	n/a	
	0.98	0.09	1	0.86	0.09	n/a	0.81	
hypothetica	16.64	7.13	1	n/a	n/a	n/a	0.86	
possible ex	3.27	0.7	1	1.27	0.21	n/a	1.14	
putative ex	13.82	2.37	1	n/a	n/a	n/a	0.96	
ratC	conserved	1.78	0.2	1	0.91	0.03	n/a	0.93
sipD	pathogenic	1.47	0.17	1	1.04	0.15	n/a	1.17
staB	chaperone	10.83	1.99	1	n/a	n/a	n/a	0.98
	putative m	4.35	0.4	1	n/a	n/a	n/a	0.78
	hypothetica	15.75	1.8	1	n/a	n/a	n/a	0.86
		1.21	0.11	1	0.96	0.06	n/a	0.97
	conserved	5.27	1.27	1	n/a	n/a	n/a	1.05
	hypothetica	2.86	0.48	1	n/a	n/a	n/a	0.82
safA	probable lip	3.79	1.01	1	n/a	n/a	n/a	0.89
	putative ex	10.4	3.59	1	n/a	n/a	n/a	0.92
	putative pe	6.52	2.16	1	n/a	n/a	n/a	0.85
	putative ba	4.93	1.05	1	n/a	n/a	n/a	1.12
	hypothetica	6.77	4.51	1	n/a	n/a	n/a	0.72
	hypothetica	4.4	0.64	1	n/a	n/a	n/a	0.77
	hypothetica	15.93	5.73	1	n/a	n/a	n/a	0.7
	conserved	5.56	0.58	1	n/a	n/a	n/a	0.99
	putative sh	1.25	0.07	1	1.36	0.09	n/a	1.22
	hypothetica	5.9	0.44	1	n/a	n/a	n/a	0.74
	hypothetica	10.28	3.74	1	n/a	n/a	n/a	0.78
	hypothetica	21.41	4.44	1	n/a	n/a	n/a	0.7
	putative ba	11.79	2.56	1	n/a	n/a	n/a	0.67
	hypothetica	8.39	0.47	1	n/a	n/a	n/a	1.09
	hypothetica	6.51	1.1	1	n/a	n/a	n/a	1.35
	putative m	22.89	2.18	1	n/a	n/a	n/a	1.09
	conserved	18.88	2.84	1	n/a	n/a	n/a	1.05
	putative re	2.17	0.19	1	0.96	0.07	n/a	1.06
	conserved	7.18	1.11	1	n/a	n/a	n/a	1.17
	putative ph	1.91	0.12	1	0.93	0.15	n/a	1.05
	putative ex	5.99	1.89	1	n/a	n/a	n/a	1.18
pilP	pilus assen	17.1	3.13	1	n/a	n/a	n/a	1.08

	putative me	39.61	7.98	1	n/a	n/a	n/a	1.09
	putative me	17.17	3.52	1	n/a	n/a	n/a	1.05
samB	UV protecti	3.83	0.42	1	n/a	n/a	n/a	1.11
sulA	cell divisor	0.93	0.08	1	0.85	0.1	1	0.83
malG	maltose tra	0.82	0.03	1	1.31	0.2	1	1.23
hofC	protein trar	0.89	0.07	1	1.12	0.21	1	0.96
yadH	ABC transp	1	0.06	1	1.1	0.13	1	0.91
fhuC	ferrichrome	0.9	0.07	1	1.12	0.16	1	0.94
yaeE	putative AE	1	0.11	1	1.05	0.12	1	0.93
yhdA	putative lipi	0.96	0.1	1	1.23	0.27	1	1.26
	putative sig	0.88	0.03	1	1.03	0.15	1	0.86
nagB	glucosamir	0.98	0.07	1	1.1	0.11	1	0.94
perone		0.14	0.02	1	1.42	0.41	1	n/a
rpmH	50s ribosor	1.06	0.12	0	1.34	0.23	0	1.13
	probable P	1.07	0.1	1	1.34	0.09	1	1.29
ron protein		0.12	0.02	1	1.35	0.17	1	n/a
	conserved	0.95	0.05	1	1.33	0.11	1	1.44
rbsB	D-ribose-bi	1.01	0.1	1	1.39	0.07	1	1.45
waaL	O-antigen I	0.84	0.09	1	1.42	0.08	1	1.53
ompH	outer mem	1.03	0.08	1	1.14	0.23	1	1.08
ftsL	cell divisor	0.92	0.09	1	1.1	0.12	1	1.02
		0.28	0.05	1	1.05	0.13	1	n/a
ygaF	putative G/	0.91	0.09	1	1.12	0.15	1	1.11
	putative se	0.99	0.07	1	0.8	0.12	1	0.76
rpID	50S ribosol	1.03	0.08	1	1.24	0.1	1	1.28
yhfL	conserved	0.96	0.2	1	1.19	0.28	1	1.05
	conserved	0.95	0.08	1	1.26	0.13	1	1.24
rotein		0.89	0.07	1	1.34	0.29	0	n/a
yheT		0.85	0.06	1	1.23	0.12	1	1.23
	heat shock	0.94	0.05	1	1.2	0.18	1	1.23
	putative lipi	1.02	0.08	1	1.1	0.18	1	0.9
	putative req	1	0.06	1	0.87	0.07	1	0.85
wza	putative po	0.91	0.08	1	1	0.22	1	0.96
osphate-binding protei		0.09	0.02	1	1.35	0.16	1	n/a
ugpC	sn-Glycero	0.8	0.06	1	1.32	0.15	1	1.06
asmA	putative ou	1.08	0.07	1	0.9	0.05	1	0.83
	putative ph	1.05	0.15	1	1.14	0.25	1	1.16
	hypothetica	0.94	0.24	1	1.07	0.11	1	0.79
dinP	hypothetica	1.03	0.12	1	1.03	0.07	1	1
wcaD		0.95	0.07	1	0.89	0.04	1	0.95
rotein		0.34	0.09	1	0.97	0.22	1	n/a
ar to int protein in phag		0.12	0.04	1	1.13	0.15	1	n/a
ate aminotransferase		0.08	0.02	1	1.01	1.98	1	n/a
t specificity protein J, pl		0.04	0.01	1	0.88	0.14	1	n/a
	putative tra	0.79	0.12	1	0.92	0.16	1	0.69
	putative tet	0.94	0.11	1	0.99	0.11	1	0.83
		0.35	0.07	0	1.05	0.26	0	n/a
live phage tail compone		0.09	0.02	1	0.93	0.04	1	n/a
	putative ox	0.99	0.07	1	1.01	0.11	1	0.79
	putative L-c	0.93	0.06	1	0.91	0.11	1	1.12
ilar to transpose		0.16	0.04	1	0.93	0.33	1	n/a
guaB	inosine-5'-r	0.92	0.07	1	0.94	0.09	1	0.9

ycaQ		0.86	0.08	1	0.77	0.11	1	0.81
sembles Clp protease		0.08	0.03	1	0.92	0.14	1	n/a
rotein		0.14	0.02	1	1.28	0.14	1	n/a
hycC	formate hydrolase	0.91	0.06	1	1.13	0.24	1	1.06
	conserved	0.97	0.12	1	1.19	0.23	1	1.16
tktB	transketolase	0.99	0.05	1	0.91	0.21	1	0.95
clpA	ATP-dependent protease	1.03	0.08	1	0.97	0.15	1	0.77
	conserved	1.35	0.35	0	1.17	0.52	0	0.75
able minor tail protein		0.09	0.01	1	0.83	0.16	1	n/a
tein		0.12	0.03	1	1.27	0.19	1	n/a
yjbN	conserved	0.93	0.07	1	1.36	0.23	1	1.26
	hypothetical	1	0.14	1	1.29	0.24	1	1.12
nuoL	NADH dehydrogenase	0.93	0.05	1	0.85	0.14	1	0.72
	putative subunit	0.96	0.16	1	0.91	0.13	1	0.92
agp	glucose-1-phosphatase	1.08	0.11	1	0.83	0.06	1	0.88
	putative ACP	0.84	0.07	1	0.73	0.1	1	0.83
cbpA	curved DNA-binding protein	1.08	0.09	1	0.79	0.11	1	0.75
fabA	D-3-hydroxyacyl-CoA synthase	1.07	0.07	1	0.83	0.04	1	0.83
sinI	putative exoenzyme	0.82	0.07	1	1.04	0.1	1	1.14
bcfF	fimbrial subunit	0.88	0.08	1	1.2	0.22	1	1.25
	putative membrane protein	1.02	0.11	1	0.84	0.09	1	0.81
sopA		0.87	0.07	1	0.97	0.16	1	0.85
		1.02	0.09	1	0.91	0.15	1	0.94
		0.9	0.11	1	0.86	0.06	1	0.78
	putative transmembrane protein	1.06	0.13	1	0.8	0.17	1	0.85
	putative transmembrane protein	0.95	0.07	1	0.95	0.13	1	0.91
	putative receptor	0.84	0.08	1	0.97	0.1	1	0.88
	conserved	0.96	0.1	1	0.97	0.1	1	0.96
rluC	ribosomal L16	0.88	0.04	1	0.97	0.15	1	0.81
flgB	putative flagellin	0.73	0.06	1	0.9	0.11	1	0.79
fusA	elongation factor	1	0.05	1	1.3	0.21	1	1.32
stbA	probable fibronectin-binding protein	0.91	0.09	1	1.23	0.31	1	0.98
ygbK	conserved	0.98	0.06	1	1.11	0.09	1	0.96
cyoB	cytochrome b	0.99	0.1	1	1	0.12	1	0.9
	putative membrane protein	1.06	0.14	1	1.21	0.13	1	1.09
metA	homoserine methyltransferase	1	0.07	1	1.21	0.18	1	1.11
yacF	conserved	1.04	0.12	1	1.15	0.23	1	0.99
pqaB	melittin resistance protein	0.98	0.06	1	0.87	0.05	1	0.87
transport protein		0.11	0.04	1	0.94	0.24	1	n/a
nemA	N-ethylmaleimide-sensitive cytochrome b	0.99	0.09	1	0.92	0.33	1	0.78
brnQ	branched chain amino acid aminotransferase	1.03	0.08	1	1.02	0.09	1	0.88
	putative phosphatase	0.93	0.11	1	0.85	0.11	n/a	0.82
malF	maltose transport protein	0.95	0.07	1	1.2	0.32	1	1.19
proA	gamma-glutamyl aminotransferase	0.84	0.06	1	1.05	0.19	1	0.83
speE	spermidine synthase	0.92	0.11	1	1.19	0.11	1	1.01
	conserved	0.92	0.08	1	0.91	0.16	1	0.81
glk	glucokinase	0.97	0.1	1	0.89	0.13	1	0.96
menB	naphthoate reductase	0.93	0.08	1	0.98	0.2	1	0.89
	conserved	1.12	0.15	1	1.02	0.09	1	0.95
suhB	extragenic silencing factor	1.06	0.09	1	1.01	0.18	1	1.08
	putative exoenzyme	1.07	0.05	1	1.19	0.26	1	1.38
ybbF	conserved	0.98	0.11	1	0.96	0.08	1	0.89



ilar to phage tail compo	0.1	0.02	1	0.9	0.06	1	n/a	
ilar to DNA packaging p	0.18	0.03	1	1.27	0.2	1	n/a	
	conserved	0.95	0.08	1	1.21	0.16	1	1.18
gpsA	glycerol-3-φ	0.98	0.02	1	1.27	0.1	1	1.44
	putative me	1.02	0.08	1	1.24	0.11	1	1.32
malP	maltodextri	0.99	0.07	1	1.23	0.19	1	1.25
	putative ior	1.01	0.07	1	1.04	0.14	1	1.02
dapE	succinyl-di	0.99	0.12	1	1.02	0.18	1	0.99
lrp	leucine-res	1.03	0.07	1	0.91	0.12	1	0.83
ybdG	putative me	1.01	0.09	1	1.02	0.14	1	0.9
yjga	conserved	0.95	0.08	1	1.33	0.17	1	1.17
dnaT	primosoma	0.91	0.07	1	1.19	0.07	n/a	1.07
rph	RNase PH	0.93	0.13	1	1.42	0.2	1	1.42
mug	G/U mism	0.99	0.11	1	1.22	0.15	1	1.22
	PTS syste	0.95	0.09	1	1.19	0.2	1	1.31
	conserved	0.93	0.06	1	1.39	0.39	1	1.24
for hsdM and hsdR		0.42	0.11	1	1.13	0.24	1	0.99
ilvH	acetolactat	1	0.07	1	1.13	0.16	1	0.88
spaR	secretory p	1.05	0.06	1	1.05	0.14	1	1.13
sucA	2-oxoglutar	1.05	0.04	1	1.07	0.11	1	0.87
melB	melibiose c	0.99	0.1	1	1.25	0.1	1	1.11
yfjA	16S rRNA	0.99	0.08	1	1.08	0.1	1	1.03
asrC	anaerobic s	1.07	0.1	1	0.97	0.06	1	0.98
hisD	histidinol d	0.91	0.04	1	0.83	0.23	1	0.86
phoE	outer mem	0.97	0.05	1	0.99	0.09	1	0.94
ushA		0.98	0.06	1	1.1	0.16	1	0.85
pyrD	dihydroorot	1	0.06	1	1	0.11	1	0.72
phoN	nonspecific	0.87	0.1	1	1.33	0.16	1	1.2
sbp	periplasmic	0.82	0.07	1	1.37	0.26	1	1.28
	conserved	0.96	0.12	1	1.13	0.12	1	0.83
	putative po	1.03	0.05	1	0.99	0.06	1	0.87
pduB	putative pr	0.95	0.07	1	0.95	0.34	1	0.84
	putative ex	0.93	0.06	1	1.07	0.19	1	1.16
	putative AE	0.92	0.09	1	1.02	0.17	1	0.83
	putative tra	0.93	0.07	1	0.82	0.15	1	0.72
		0.93	0.1	1	1.16	0.16	n/a	1.25
citC2	[citrate (PR	0.85	0.09	1	1.13	0.15	1	0.99
rotein		0.99	0.32	0	1.31	0.54	0	0.74
purH	phosphorib	0.79	0.1	1	1.22	0.34	1	1.23
yfhl	peptidase E	0.95	0.08	1	1.06	0.18	1	0.99
pduE	diol dehydr	1.01	0.06	1	0.91	0.21	1	0.95
dcuB	anaerobic (	1.01	0.01	1	1.09	0.1	1	1.13
	conserved	1.01	0.06	1	0.74	0.08	1	0.72
fabG	3-oxoacyl-[	0.98	0.11	1	0.9	0.11	1	0.7
	conserved	1.08	0.1	1	0.76	0.08	1	0.75
pheA	chorismate	0.85	0.06	1	1.04	0.13	1	1.09
yaaA	conserved	0.98	0.06	1	1.24	0.13	1	1.15
	putative De	0.99	0.08	1	1.36	0.16	1	1.24
	hypothetica	0.92	0.1	1	0.9	0.37	1	0.81
fdoG	formate de	1	0.09	1	1.31	0.22	1	1.26
yigN	putative me	0.97	0.09	1	1.3	0.35	1	1.27
hemX	uroporphyr	0.87	0.05	1	1.53	0.31	1	1.18

fba	fructose 1,6	0.98	0.06	1	1.11	0.09	1	1.16
fliM	flagellar mo	0.98	0.08	1	0.81	0.06	1	0.92
cysZ	putative su	1.05	0.05	1	0.91	0.1 n/a		0.94
hyaD	hydrogenas	1.01	0.08	1	0.73	0.11	1	0.76
nusA	L factor	0.9	0.06	1	1.14	0.08	1	1.35
sdaC	putative se	1.03	0.05	1	1.18	0.21	1	1.13
	possible int	1.09	0.09	1	1.33	0.06	1	1.2
tatC	sec-indepe	1.06	0.08	1	1.33	0.34	1	1.16
recQ	ATP-deper	0.88	0.12	1	1.28	0.16	1	1.27
yigI	conserved	1.03	0.09	1	1.35	0.32	1	1.21
hemH	ferrochelate	0.95	0.08	1	1.13	0.22	1	0.85
tufB	elongation	0.96	0.04	1	1.11	0.28 n/a		1.23
fliG	flagellar mo	0.9	0.08	1	0.91	0.19	1	0.83
cysI	sulfite redu	0.7	0.06	1	1.07	0.16	1	1.12
ppdB	prepilin pe	0.85	0.09	1	0.98	0.16	1	1.03
pspE	phage shor	1.06	0.11	1	0.9	0.27	1	0.77
	putative me	1	0.09	1	0.93	0.15	1	0.84
	conserved	1.03	0.06	1	0.98	0.22	1	0.77
ne protein		0.11	0.01	1	0.99	0.18	1 n/a	
	putative arr	1	0.1	1	0.77	0.08	1	0.74
ribA	GTP cyclot	1.04	0.06	1	0.89	0.07	1	0.79
narI	respiratory	1	0.12	1	0.73	0.06	1	0.69
	putative Na	1	0.09	1	0.74	0.06	1	0.79
	putative me	1.08	0.12	1	0.71	1.13	1	0.77
		0.89	0.11	1	0.81	0.2	1	0.91
cutC	putative co	1.1	0.09	1	0.92	0.24	1	0.83
gsk	inosine-gua	0.97	0.08	1	1.06	0.15	1	0.88
hyaF2	hydrogenas	0.97	0.07	1	0.72	0.07	1	0.76
	putative re	1	0.08	1	0.76	0.04	1	0.72
pflB	formate ac	0.99	0.09	1	0.93	0.11	1	0.85
citF	citrate lyas	0.92	0.04	1	1.27	0.15	1	0.87
	putative se	1.14	0.04	1	0.81	0.1	1	0.75
srfB	putative vir	0.94	0.05	1	0.81	0.12	1	0.78
gor	glutathione	0.91	0.03	1	1.28	0.11	1	1.24
		1.01	0.07	1	1.42	0.15	1	1.22
ne protein		0.26	0.07	1	1.12	0.14	1 n/a	
dfp	conserved	0.97	0.05	1	1.33	0.17	1	1.24
relA	GTP pyrop	0.94	0.04	1	1.17	0.11	1	1.03
	hypothetica	1.12	0.09	1	1.06	0.21	1	1.12
	possible ef	0.95	0.06	1	1.05	0.1	1	0.85
otein		0.82	0.1	1	1.05	0.08	1	0.72
amtB	probable ai	1.05	0.06	1	1.01	0.1	1	0.76
	, ribokinase family	0.16	0.05	1	1.24	0.27	1 n/a	
xylB	xylulose kir	1.01	0.11	1	1.34	0.15	1	1.14
sapB	putative au	0.82	0.06	1	1.28	0.13	1	1.31
yjFY	conserved	0.76	0.14	1	1.25	0.16	1	1.18
aroL	shikimate k	1.04	0.04	1	1.22	0.19	1	0.92
	putative ox	0.93	0.04	1	1.05	0.19	1	0.92
metC	beta-cystat	0.93	0.03	1	1.18	0.1 n/a		1.21
hycG	formate hy	0.98	0.06	1	1.09	0.27	1	1.09
malS	alpha-amyl	0.87	0.05	1	1.35	0.22	1	1.22
	conserved	0.94	0.11	1	1.39	0.24	1	1.32

	conserved	0.75	0.06	1	1.19	0.09	1	1.23
	putative me	0.92	0.1	1	1.08	0.17	1	1.26
foxA	ferrioxamin	1.01	0.05	1	1.12	0.08	1	0.85
	conserved	1.14	0.07	1	1.08	0.1	1	1.08
yeiE	putative tra	1.04	0.06	1	0.95	0.06	1	0.76
	r to 3rd module of ATP	0.51	0.07	1	1.03	0.11	1	0.89
cdd	cytidine de	1	0.09	1	0.96	0.15	1	0.87
rfbN	putative rho	1.02	0.09	1	1.2	0.27	0	1.03
fbaB	fructose-bis	0.92	0.1	1	0.86	0.1	1	0.91
yohl	conserved	0.91	0.06	1	0.86	0.14	1	0.83
rpsK	30S riboso	0.98	0.02	1	1.19	0.13	1	1.29
fcl	GDP-fucos	0.94	0.06	1	0.93	0.16	1	0.85
dld	D-lactate d	0.97	0.07	1	0.91	0.16	1	0.85
	conserved	0.9	0.05	1	1.09	0.11	1	1.07
yhjU	putative me	1.02	0.06	1	1.27	0.18	1	1.35
	putative ac	0.94	0.08	1	1.28	0.29	1	1.15
murA	UDP-N-ace	0.99	0.06	1	1.24	0.14	1	1.13
sgaA	probable st	0.6	0.11	1	1.2	0.36	1	1.02
	conserved	1	0.09	1	1.24	0.16	1	1.09
creA	conserved	1	0.07	1	1.23	0.07	1	1.14
gmk	5'guanylate	0.94	0.1	1	1.34	0.16	1	1.42
	conserved	1.04	0.14	1	0.97	0.16	1	1.35
	putative ex	1.02	0.05	1	1.15	0.1	1	1.14
degS	serine prot	1.05	0.07	1	1.13	0.06	1	1.32
gatR	galactitol u	1.04	0.07	1	1.08	0.11	1	1.28
	probable m	1.06	0.06	1	1.08	0.13	1	1.16
pagP	antimicrobi	0.87	0.07	1	1.07	0.12	1	0.86
hpt	hypoxanthi	0.94	0.1	1	1.16	0.16	1	1.03
		1.08	0.09	1	0.91	0.13	1	0.92
yjeA	lysyl-tRNA	0.96	0.05	1	1.24	0.26	1	1.16
sseG	putative pa	0.86	0.07	1	0.81	0.05	1	0.77
	putative me	1.02	0.03	1	0.68	0.08	1	0.63
pha subunit		0.15	0.02	1	0.99	0.47	1 n/a	
	putative me	1	0.07	1	0.91	0.19	1	0.67
fer flavoprotein beta sul		0.1	0.02	1	0.93	0.15	1 n/a	
rotein		1.14	0.15	1	1.13	0.17	1 n/a	
one lyase		0.21	0.07	1	1.18	0.28	1 n/a	
rpmE2	putative 50	0.97	0.09	1	1.06	0.11	1	0.9
yqcC	conserved	0.86	0.05	1	1.03	0.15	1	1.22
	hypothetica	0.91	0.04	1	1.18	0.08 n/a		1.07
stop following codon 2:		0.92	0.05	1	0.84	0.12	1 n/a	
	putative me	1.12	0.05	1	1.18	0.08	1	1.01
ne protein		0.11	0.06	1	1.37	0.12	1 n/a	
	putative me	1.05	0.07	1	1.34	0.11	1	1.17
2-binding sugar transpo		0.08	0.03	1	0.81	0.04	1 n/a	
rpmD	50S riboso	0.92	0.06	1	1.2	0.24	1	1.24
able regulatory protein		0.14	0.03	1	0.92	0.12 n/a	n/a	
	hypothetica	1.05	0.09	1	1.16	0.18	1	0.92
	conserved	0.94	0.15	1	0.75	0.12	1	0.86
	putative ph	1.26	0.13	1	1.07	0.24	1	0.95
citD	citrate lyas	1.04	0.04	1	1.08	0.11	1	0.8
infA	initiation fa	1.09	0.12	1	0.94	0.06	1	0.74

nucE2	possible se	1.19	0.12	1	1	0.17	1	1.02
yacE	conserved	0.99	0.09	1	1.12	0.08	1	0.99
	probable lip	0.85	0.07	1	1.02	0.16	1	0.84
panC	pantoate:bi	0.87	0.07	1	1.09	0.2	1	0.94
yaiA	conserved	0.93	0.09	1	1	0.18	1	0.84
	conserved	0.92	0.08	1	1.12	0.11	1	1
	conserved	1.03	0.08	1	1.46	0.43	0	1.14
	putative se	1.06	0.07	1	0.82	0.1	1	0.79
	putative lip	1.03	0.06	1	0.71	0.11	1	0.76
rpmJ2	putative 50	1.03	0.1	1	1.12	0.48	0	0.92
	conserved	1.08	0.11	1	0.93	0.32	0	0.9
rpsV	30S riboso	1.01	0.08	1	0.94	0.56	1	0.68
ybhT	putative ex	1.14	0.14	1	1.06	0.36	1	0.73
ulence: regulation of s		0.05	0.03	1	0.75	0.1 n/a	n/a	
mbrial synthesis		0.05	0.01	1	0.68	0.09 n/a	n/a	
		0.22	0.15	1	0.85	0.24 n/a	n/a	
urface exclusion		0.06	0.02	1	0.78	0.15 n/a	n/a	
in A		0.04	0.01	1	0.78	0.11 n/a	n/a	
ssembly		0.03	0.01	1	0.71	0.07 n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
ar to invertase (pin) in p		0.37	0.08	1	1.02	0.15	1 n/a	
		0.08	0.02	1	0.86	0.07 n/a	n/a	
ase subunits of ATP-d		0.09	0.02	1	0.93	0.07	1 n/a	
		1.04	0.04	1	1.17	0.1 n/a		1.01
		0.93	0.11	1	1.17	0.14 n/a		1.14
		0.06	0.02	1	0.94	0.11 n/a	n/a	
	hypothetica	6.87	4.4	1 n/a	n/a	n/a		0.75
	hypothetica	7.22	1.73	1 n/a	n/a	n/a		0.82
	putative me	13.53	3.8	1 n/a	n/a	n/a		0.67
	putative ba	12.36	6.42	1 n/a	n/a	n/a		0.74
	conserved	17.24	10.73	1 n/a	n/a	n/a		0.71
	putative ba	17	3.63	1 n/a	n/a	n/a		0.8
	hypothetica	15.65	4.35	1 n/a	n/a	n/a		0.7
	hypothetica	17.17	4.69	1 n/a	n/a	n/a		0.67
	outer mem	1.39	0.07	1	0.74	0.14 n/a		0.71
	putative DN	10.95	1.86	1 n/a	n/a	n/a		0.81
	putative ba	19.44	4.55	1 n/a	n/a	n/a		0.71
	hypothetica	12.39	5.68	1 n/a	n/a	n/a		1.06
	putative DN	6.21	2.16	1 n/a	n/a	n/a		0.76
	putative pr	3.74	0.35	1 n/a	n/a	n/a		0.73
	putative ba	12.98	4.01	1 n/a	n/a	n/a		0.7
	hypothetica	9.06	4.12	1 n/a	n/a	n/a		0.7
	hypothetica	2.21	0.45	1 n/a	n/a	n/a		1.16
oadB	oxaloaceta	1.04	0.05	1	1.06	0.06 n/a		0.89
		1.07	0.11	1	0.7	0.15 n/a		0.63
	putative ba	15.2	3.51	1 n/a	n/a	n/a		0.77
	putative ba	17.86	4.64	1 n/a	n/a	n/a		0.78



creC	putative tw	0.98	0.1	1	1.13	0.22	1	1.11
	hypothetica	1.1	0.07	1	0.94	0.16	1	0.83
g domain		0.3	0.06	1	0.93	0.28	1	n/a
	gab protein	1.01	0.06	1	1.23	0.25	1	1.2
copS	histidine kir	0.91	0.08	1	0.97	0.24	1	0.85
	putative 3-l	1.07	0.12	1	0.81	0.14	1	0.92
yfeH	putative me	1	0.11	1	0.91	0.25	1	0.95
	putative ex	0.96	0.14	1	1	0.06	1	1.17
	conserved	1.06	0.17	1	0.93	0.22	1	0.95
rpsA	30S riboso	1.04	0.18	1	0.94	0.16	1	0.89
	putative ba	0.58	0.06	1	0.87	0.1	n/a	0.89
aat	leucyl/pher	1	0.07	1	0.97	0.29	1	0.83
	putative se	1.01	0.14	1	0.92	0.07	1	1.02
ygjN	conserved	1.1	0.16	1	1.29	0.26	1	1.26
talC	putative tra	0.92	0.14	1	1.32	0.29	0	1.45
	hypothetica	0.98	0.07	0	1.08	0.45	0	1.17
	FxA prote	0.93	0.13	1	1.22	0.1	1	1.19
purC	phosphorib	0.93	0.1	1	0.93	0.05	1	0.96
sseB	SseB prote	0.98	0.05	1	1	0.11	1	1
	putative PT	1.09	0.1	1	0.97	0.1	1	0.99
	alcohol de	0.96	0.17	1	1.4	0.21	1	1.58
glpK	glycerol kin	1	0.11	1	1.32	0.21	1	1.29
argB	acetylgluta	0.95	0.06	1	1.24	0.15	1	1.22
glpA	anaerobic g	1.07	0.09	1	0.8	0.09	1	0.97
ne protein		0.15	0.05	1	1.06	0.13	1	n/a
hsdR	subunit R c	0.83	0.07	1	1.11	0.2	1	1.23
motB	motility pro	1.09	0.15	1	0.76	0.11	1	0.88
	putative me	1.06	0.18	1	0.71	0.17	1	0.78
prpD	PrpD prote	0.86	0.12	1	1.05	0.25	1	1.07
lexA	LexA repre	1.07	0.16	1	1.11	0.14	1	1.17
sitA	Iron transp	1.04	0.19	1	1.1	0.18	1	1.26
slyB	outer mem	1.31	0.23	1	0.81	0.4	0	0.86
cycA	D-serine/D-	1	0.16	1	1.04	0.17	1	1.13
ie		0.07	0.02	1	1.16	0.15	1	n/a
	putative Bg	0.96	0.14	1	1.14	0.06	1	1.14
cpdB	2',3'-cyclic-	1.02	0.07	1	1.21	3.65	1	1.34
		0.07	0.02	1	1.15	0.73	1	n/a
treB	PTS system	0.73	0.12	1	1.19	0.12	1	1.15
on enzyme, methylase		0.04	0.01	1	1.16	0.1	1	n/a
e		0.13	0.01	1	1.3	0.66	1	n/a
	putative inr	1.03	0.08	1	0.79	0.1	1	0.77
	putative AE	1.01	0.15	1	0.71	0.17	1	0.71
dsdX	DsdX perm	0.96	0.1	1	1.51	0.18	1	1.38
torS	Two-compr	1.02	0.11	1	1.4	0.36	1	1.4
	probable te	1.03	0.09	1	0.98	0.18	1	0.94
fixC	FixC protei	0.93	0.14	1	1.1	0.08	1	1.12
pdhR	pyruvate de	0.98	0.22	1	1.08	0.11	1	1.08
dinF	putative DN	1.06	0.16	1	1.18	0.11	1	1.2
lrhA	NADH dehy	0.99	0.19	1	0.83	0.08	1	0.96
btuD	vitamin B12	1.19	0.17	1	1.01	0.48	1	0.78
ybjG	putative pe	1.08	0.2	1	0.88	0.04	1	0.9
	putative fer	1.01	0.14	1	0.96	0.23	1	0.86

dmsA1	putative dir	1.03	0.17	1	0.76	0.11	1	0.73
	conserved	1.08	0.09	1	0.85	0.13	1	0.66
	hypothetica	0.99	0.08	1	1.44	1.46	1	1.43
	putative tra	1.05	0.11	1	1.05	0.18	1	1
queA	S-adenosyl	1.07	0.07	1	1.14	0.26	1	0.93
	conserved	0.91	0.07	1	1.15	0.29	1	1.23
truA	tRNA pseu	1.02	0.12	1	0.97	0.19	1	1.01
	possible tra	0.94	0.1	1	1.05	0.26	1	1.03
	putative po	0.98	0.18	1	1.07	0.18	1	0.98
mdlA	putative AE	1.02	0.11	1	1.04	0.74	1	0.87
ykgB	putative me	1.07	0.08	1	0.94	0.07	1	0.81
	putative me	0.98	0.24	1	0.94	0.56	0	1.02
msrA	peptide me	0.89	0.15	1	1.06	0.12	1	1.2
holC	DNA polym	1.04	0.1	1	1.18	0.45	0	1.08
yfiF	putative RN	1.04	0.16	1	1.01	0.11	1	1.03
	putative ex	1.02	0.21	1	1	0.16	1	1.28
tdcE	probable fc	1.08	0.17	1	1.17	0.14	1	1.24
	putative pro	0.93	0.18	1	1.04	0.1	1	1.29
metJ	repressor c	1.07	0.09	0	1.44	0.45	0	1.09
icyltransferase		0.79	0.11	1	0.71	0.07	1	0.86
	putative me	1.13	0.12	1	1.03	0.2	1	0.99
gabD	succinate-s	0.97	0.06	1	1.11	0.17	1	1.23
ilar to head-tail preconn		0.06	0.01	1	1.07	0.24	1	n/a
rseA	sigma-E fa	0.97	0.13	1	1.03	0.06	1	1.06
fotransferase		0.95	0.1	1	1.16	0.15	1	1.39
yhjO	putative po	0.96	0.08	1	1.25	0.18	1	1.29
	conserved	1.18	0.2	1	1.21	0.28	1	1.42
yscR	putative typ	1.02	0.15	1	0.68	0.06	1	0.75
purM	phosphorib	0.91	0.16	1	1.1	0.2	1	0.93
putP	sodium/pro	0.97	0.17	1	0.79	0.13	1	0.7
nrdF	ribonucleos	1.04	0.13	1	1.23	0.12	1	1.18
	hypothetica	1.03	0.09	1	1	0.05	1	0.92
sipA	pathogenic	1	0.16	1	1	0.13	1	1.22
envZ	two-compo	0.96	0.09	1	1.26	0.15	1	1.25
sapC	peptide tra	1.17	0.15	1	1.02	0.35	1	0.79
rhaB	rhamnuloki	0.96	0.13	1	1.3	0.21	1	1.35
fimY	fimbriae Y	1	0.2	1	1.07	0.25	1	0.86
sifA	putative vir	0.92	0.13	1	0.78	0.17	1	0.78
pyrC	dihydroorot	0.93	0.05	1	0.88	0.17	1	0.87
fic	cell filamer	0.9	0.13	1	1.18	0.12	1	1.13
fdhD	FdhD prote	0.9	0.09	1	1.22	0.2	1	1.46
pbpA	penicillin-bi	0.96	0.16	1	0.94	0.08	1	0.92
yafC	hypothetica	0.89	0.16	1	1.08	0.21	1	1.08
ain NADH dehydrogenase		0.86	0.11	1	0.74	0.98	1	0.73
sipC	pathogenic	0.98	0.12	1	1.07	0.11	1	1.19
flgN	flagella syn	1.03	0.12	1	0.76	0.28	0	0.78
uvrA	excision nu	0.95	0.12	1	1.28	0.13	1	1.35
smpB	SsrA (tmRI	1.12	0.17	1	0.98	0.14	1	1.1
	putative se	1.01	0.21	1	1.05	0.13	1	1.15
coaA	pantothena	1.08	0.19	1	1.3	0.43	1	1.38
	hypothetica	1.11	0.22	0	1.61	0.36	0	0.92
atpD	ATP synthe	1.03	0.19	1	1.4	0.14	1	1.51

sbcC	exonucleas	0.95	0.11	1	0.99	0.18	1	1.01
spaQ	secretory p	0.97	0.13	0	1.35	0.35	0	1.22
phsB	thiosulfate	1.15	0.22	1	0.94	0.21	1	0.81
cheB	protein-glut	1.09	0.11	1	0.74	0.09	1	0.85
	conserved	1.27	0.1	1	0.66	0.3	1	0.7
ssrB	putative tw	1.1	0.09	1	0.95	0.31	1	0.84
waaG	lipopolysac	0.96	0.17	1	1.41	0.1	1	1.38
	probable s	0.88	0.14	0	1.01	0.47	0	0.89
thiF	thiamine bi	0.61	0.08	1	1.4	0.31	1	1.26
trkH	trk system	1.07	0.13	1	1.36	0.19	1	1.2
hisS	histidyl-tRN	1.02	0.1	1	0.96	0.14	1	1.04
rffC	lipopolysac	1.05	0.1	1	1.53	0.12	1	1.31
ilvA	threonine c	0.96	0.15	1	1.45	0.12	1	1.28
narJ	respiratory	0.97	0.09	1	0.81	0.37	1	0.78
hyaF	hydrogena	1.01	0.14	1	0.74	0.27	1	0.78
ispZ	putative int	1.1	0.08	1	0.78	0.21	0	0.74
nadC	nicotinate-r	1.08	0.16	1	1.03	0.09	1	0.99
phnV	probable m	0.98	0.17	1	0.96	0.09	1	0.81
fdol	formate de	1	0.14	1	1.22	0.24	1	1.11
ssaD	putative pa	1.18	0.15	1	0.62	0.09	1	0.7
fimH	FimH prote	0.89	0.12	1	1.01	0.18	1	0.84
yigA	conserved	0.97	0.08	1	1.36	0.12	1	1.24
ilvC	ketol-acid r	0.93	0.13	1	1.46	0.15	1	1.24
pcnB	poly(A) pol	0.9	0.1	1	1.02	0.1	1	0.99
manY	phosphotra	1.06	0.1	1	0.84	0.09	1	0.75
	putative AT	1.05	0.11	1	0.78	0.13	1	0.8
invA	possible se	0.92	0.09	1	1.05	0.1	1	1.12
ybaJ	conserved	1	0.05	1	1.08	0.15	1	0.97
hyaA2	uptake hyd	1.04	0.09	1	0.65	0.13	1	0.74
	putative me	1.13	0.17	1	0.69	0.13	1	0.73
dmsC	anaerobic c	1.07	0.16	1	0.86	0.11	1	0.73
	molybdopte	0.99	0.15	1	0.9	0.1	1	0.94
		0.71	0.12	1	0.66	0.21	1	0.79
e-N, Fe-S beta subunit		0.22	0.07	1	0.71	0.09	1 n/a	
sifB	putative vir	1.1	0.18	1	0.71	0.18	1	0.78
rotaxis protein III, ribos		0.11	0.03	1	0.72	0.05	1 n/a	
hslJ	heat shock	1.09	0.14	1	0.72	0.07	1	0.81
	conserved	1.02	0.14	1	0.67	0.09	1	0.7
	putative me	1.03	0.11	1	1.04	0.14	1	0.8
sfbB	ABC transp	1.04	0.12	1	1.01	0.12	1	0.81
ppiB	peptidyl-pr	1.06	0.09	1	0.99	0.06	1	0.79
entC	isochorism	1.03	0.08	1	1.08	0.11	1	0.9
	putative ph	1.2	0.07	1	1.11	0.12	1	1.15
	putative inv	1.02	0.11	1	0.77	0.14	1	0.79
nhaB	regulator of	1.14	0.1	1	0.72	0.13	1	0.85
ar to retron in E coli		0.84	0.09	1	1.05	0.05	1	1.16
	possible re	1.12	0.1	1	1.09	0.14	1	1.1
selA	L-seryl-tRN	1.04	0.11	1	1.32	0.14	1	1.24
	hypothetica	1.1	0.15	1	1.52	0.21	1	1.23
	conserved	0.93	0.1	1	1.1	0.19	1	1.33
mutH	DNA mism	1.1	0.12	1	1.12	0.13	1	1.18
ine lipoprotein		0.22	0.05	1	0.99	0.09	1 n/a	



uxaC	uronate iso	0.99	0.15	1	1.04	0.18	1	1.28
proW	glycine bet:	1.02	0.14	1	1.14	1.03	1	1.01
	putative me	1.02	0.19	1	1.04	0.16	1	1.22
panF	sodium/par	0.93	0.12	1	1.02	0.16	1	1.24
probable minor	tail protein	0.25	0.1	0	0.89	0.13	1	n/a
gcvT	aminometh	1.06	0.12	1	1.08	0.13	1	1.14
ne protein		0.95	0.11	1	1.2	0.36	1	1.22
	LysR-famil	0.88	0.1	1	1.1	0.14	1	1.11
ylaB	hypothetica	1	0.06	1	1.04	0.07	1	0.87
yhjE	hypothetica	1.02	0.1	1	1.22	0.13	1	1.12
rotein		0.07	0.02	1	1.1	0.14	1	n/a
sgaU	conserved	1.01	0.08	1	1.1	0.11	1	1.11
	putative inr	1.11	0.13	1	1.05	0.17	1	1.15
creD	inner meml	1.07	0.1	1	1.13	0.15	1	1.13
	putative rut	0.99	0.11	1	1.14	0.12	1	1.1
	putative tra	1.07	0.19	1	0.88	0.17	1	0.85
rfbK	phosphom	0.94	0.16	1	0.81	0.17	1	0.92
ygaC	conserved	0.99	0.1	1	1.06	0.13	1	1.14
folE	GTP cyclot	1.11	0.15	1	0.9	0.22	1	1.01
wcaJ	putative ex	1.02	0.17	1	0.87	0.1	1	0.85
	glutathione	1	0.17	1	0.85	0.23	1	0.86
mltE	membrane	1.03	0.17	1	0.81	0.17	1	0.88
lyxK	putative L->	1.03	0.11	1	1.35	0.15	1	1.36
rotein		0.13	0.05	1	0.91	0.14	1	n/a
kdgR	transcriptio	1.05	0.11	1	0.73	0.33	1	0.86
	putative lipi	0.85	0.08	1	1.29	0.47	1	1.35
rpsJ	30S ribosom	1.01	0.07	1	1.15	0.23	1	1.37
miaA	tRNA delta	1	0.1	1	1.25	0.09	1	1.17
tdcG	L-serine de	1.04	0.03	1	1.09	0.17	1	1.14
	probable G	1.04	0.09	1	1.13	0.13	1	1.15
air	aerotaxis re	0.96	0.06	1	1.19	0.05	1	1.11
gsp	glutathiony/	1.13	0.11	1	1.12	0.16	1	1.21
	possible m	1.01	0.09	1	1.01	0.09	1	1.16
flgF	putative fla	1.09	0.17	1	0.81	0.13	1	0.76
	putative me	1.03	0.13	1	1.08	0.14	1	1.16
ttrS		1.07	0.15	1	0.73	0.08	1	0.8
		0.25	0.07	1	1.25	0.17	n/a	n/a
dsbB	disulfide isc	1.11	0.15	1	1.11	0.13	1	1.35
	conserved	1.04	0.13	1	1.08	0.09	1	1.19
bglA	6-phospho-	1.03	0.26	1	1.09	0.19	1	1.2
	probable se	0.91	0.14	1	0.94	0.2	1	0.85
uxuB	D-mannoni	0.97	0.08	1	1.1	0.19	1	1.23
	putative me	1.02	0.08	1	1.13	0.07	1	1.15
hpcG	2-oxo-hept	1.09	0.11	1	0.94	0.29	1	0.76
	putative me	0.97	0.09	1	1.12	0.22	1	0.77
	HlyD-famil	1	0.06	1	0.95	0.83	1	0.84
dacC	D-alanyl-D-	0.96	0.06	1	0.92	0.15	1	0.83
ybaZ	putative me	1.05	0.12	1	1.03	0.11	1	0.91
yaiE	conserved	1.11	0.1	1	0.98	0.13	1	0.8
	hypothetica	1.03	0.1	1	1.17	0.1	1	1.29
		0.54	0.1	1	0.9	0.13	1	n/a
sin		0.66	0.06	1	1.16	0.18	0	n/a

yfhF	conserved	1.1	0.12	1	0.91	0.12	1	1.04
dsrB	DsrB protei	1.03	0.13	1	0.82	0.16	1	0.96
srB-regulated factor		0.16	0.03	1	0.82	0.13	1	n/a
	putative me	1.03	0.13	1	0.98	0.13	1	1.04
ybil	hypothetica	1.09	0.12	1	0.79	0.13	1	0.86
relE	conserved	1.15	0.12	1	1.06	0.1	1	1.11
yjiW	conserved	1.01	0.08	1	1.01	0.11	1	1.21
	conserved	0.97	0.11	1	1.08	0.1	1	1.03
	conserved	0.98	0.05	1	0.74	0.1	1	0.82
	putative se	0.81	0.07	1	0.88	0.16	1	0.73
lppA	major outei	1.03	0.11	1	0.84	0.09	1	0.97
	conserved	1.12	0.08	1	1.31	0.05	1	1.35
	putative se	1.1	0.06	1	1.28	0.14	1	1.34
	hypothetica	0.97	0.05	1	1.1	0.21	1	1.08
caiC	probable cr	0.94	0.06	1	1.05	0.19	1	0.96
	possible su	1.06	0.08	1	1.12	0.15	1	1.03
folA	dihydrofola	1.08	0.08	1	1.07	0.06	1	0.99
pdxA	pyridoxal p	1.07	0.14	1	1.17	0.16	1	1.08
	putative lipi	1.15	0.13	1	1.11	0.17	1	1.09
		0.17	0.05	1	1.17	0.47	0	n/a
	putative me	0.89	0.14	1	0.72	0.11	1	0.77
pspB	phage shor	1.03	0.15	1	0.71	0.16	1	0.84
	putative lipi	1.05	0.15	1	0.68	0.13	1	0.72
rotein		0.19	0.05	1	0.68	0.06	1	n/a
	conserved	1.06	0.19	1	1.09	0.11	1	1.22
ein		0.02	0.01	1	0.66	0.1	n/a	n/a
: toxin		0.04	0.01	1	0.71	0.06	n/a	n/a
ssembly		0.04	0.02	1	0.71	0.05	n/a	n/a
ulence: hydrophilic prot		0.04	0.01	1	0.68	0.11	n/a	n/a
rotein		0.05	0.03	1	0.7	0.05	n/a	n/a
ssembly		0.03	0.01	1	0.68	0.03	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
utative outer membran		0.41	0.05	1	0.72	0.07	n/a	1.21
		0.18	0.03	1	0.84	0.09	n/a	n/a
		0.29	0.05	1	0.97	0.07	n/a	n/a
		0.17	0.02	1	0.8	0.07	n/a	n/a
		0.69	0.13	0	1	0.3	n/a	n/a
ive tail assembly protei		0.44	0.1	0	0.96	0.3	0	n/a
nupG	nucleoside	1.1	0.19	1	1.07	0.12	1	1.2
	hypothetica	5.73	2.44	1	n/a	n/a	n/a	0.92
	hypothetica	6.92	3.02	1	n/a	n/a	n/a	1.01
gam	host-nuclea	8.11	2.66	1	n/a	n/a	n/a	0.76
	putative ba	7.49	1.27	1	n/a	n/a	n/a	0.94
	putative ba	31.65	17.16	1	n/a	n/a	n/a	0.69
	putative ba	14.39	2.33	1	n/a	n/a	n/a	0.86
	probable se	1.52	0.13	1	0.98	0.12	n/a	0.87
	putative DN	5.13	0.91	1	n/a	n/a	n/a	0.82
	putative pro	17.53	7.55	1	n/a	n/a	n/a	0.73

	putative ba	9.9	1.81	1	n/a	n/a	n/a	0.78
	conserved	25.49	4.57	1	n/a	n/a	n/a	0.71
	hypothetica	4.09	0.69	1	n/a	n/a	n/a	0.88
	bacterioph	7.72	1.01	1	n/a	n/a	n/a	0.62
pdxY	pyridoxami	1.11	0.16	1	0.72	0.08	n/a	0.68
	putative ba	23.49	6.67	1	n/a	n/a	n/a	0.75
	putative ba	20.23	7.93	1	n/a	n/a	n/a	0.72
	hypothetica	21.51	7.88	1	n/a	n/a	n/a	0.85
recE	exodeoxyri	15.48	3.63	1	n/a	n/a	n/a	0.78
aroD	3-dehydroc	3.69	1.59	1	n/a	n/a	n/a	0.75
	putative ba	14.21	3.56	1	n/a	n/a	n/a	0.74
	putative ba	11.56	2.3	1	n/a	n/a	n/a	0.82
	putative ba	16.19	1.59	1	n/a	n/a	n/a	0.83
cl	repressor p	11.11	3.23	1	n/a	n/a	n/a	1.43
	putative ca	0.94	0.27	0	n/a	n/a	n/a	0.62
vexB	Vi polysacc	18.33	3.31	1	n/a	n/a	n/a	1.15
	putative me	24.16	5.69	1	n/a	n/a	n/a	1.03
	hypothetica	16.81	3.43	1	n/a	n/a	n/a	1.09
	helicase re	13.7	1.53	1	n/a	n/a	n/a	1.1
		1.68	0.1	1	1.26	0.14	n/a	1.25
	hypothetica	18.66	2.59	1	n/a	n/a	n/a	1.08
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
pepT	aminotripe	1.08	0.14	1	0.75	0.12	1	0.77
murD	UDP-N-ace	1.02	0.1	1	1.19	0.23	1	0.95
lonuclease		0.37	0.12	1	1.02	0.2	1	n/a
panB	3-methyl-2-	0.66	0.15	1	1	0.1	1	1.03
	putative se	0.96	0.11	1	1.13	0.13	1	0.97
	conserved	0.96	0.12	0	1.27	0.4	0	0.75
fhuB	ferrichrome	0.92	0.08	1	1.1	0.14	1	0.98
		0.3	0.07	1	1.01	0.14	1	0.78
ybfF	putative es	1	0.07	1	0.95	0.09	1	0.87
nate transport protein		0.13	0.02	1	1.17	0.23	1	n/a
riptide (RNA-depende		0.23	0.02	1	1.47	0.38	0	n/a
yieN	conserved	0.97	0.07	1	1.41	0.23	1	1.33
ne protein		1.02	0.09	1	1.44	0.18	1	n/a
	conserved	0.94	0.08	1	1.49	0.38	1	1.33
	putative re	0.97	0.08	1	1.05	0.18	1	1.22
pgtP	phosphogly	0.92	0.09	1	0.87	0.17	1	0.94
galT	galactose-	0.96	0.05	1	0.86	0.13	1	0.89
mutT	7,8-dihydro	1.06	0.1	1	1.08	0.17	1	0.97
		1.03	0.11	1	1.14	0.18	n/a	n/a
	putative me	1.13	0.23	1	1	0.23	1	0.78
yrdC	conserved	1.01	0.09	1	1.08	0.15	1	1.26
yheR	putative ox	1.07	0.07	1	1.08	0.06	1	1.34
yrfG	putative hy	1.09	0.13	1	1.27	0.1	1	1.42
	hypothetica	0.95	0.14	1	0.89	0.23	1	0.87
yheM	conserved	0.72	0.1	1	1.38	0.19	0	1.44

aroK	shikimate k	1.13	0.23	1	1.15	0.33	1	1.24
	conserved	1.02	0.08	1	0.87	0.67	1	0.82
	conserved	1.03	0.07	1	1.01	0.62	0	0.77
manB	phosphom	0.94	0.05	1	0.88	0.13	1	0.89
	hypothetica	1	0.02	1	0.85	0.15	1	0.99
glgX	glycogen o	0.93	0.06	1	1.19	0.13	1	1.39
	putative m	0.95	0.07	1	1.47	0.33	0	1.25
	hypothetica	0.91	0.04	1	0.82	0.09	1	0.95
	thetical protein	0.25	0.06	1	1.03	0.31	1	n/a
	hypothetica	0.85	0.07	1	1.04	0.21	0	0.73
		0.09	0.01	1	0.89	0.07	1	n/a
alkA	DNA-3-mei	1	0.25	1	0.96	0.14	1	0.72
		1.01	0.17	1	1.17	0.13	n/a	1.1
	regulator	0.15	0.04	1	1.12	0.26	1	n/a
	late isomerase (dehydr	0.1	0.03	1	1.14	0.19	1	n/a
pqiB	putative se	1.03	0.16	1	0.89	0.12	1	0.76
rstA	putative tw	1.05	0.12	1	0.77	0.21	1	0.85
	possible tra	1.14	0.16	1	0.82	0.1	1	0.77
		0.2	0.06	1	1.02	0.21	0	n/a
		0.07	0.01	1	0.87	0.07	n/a	n/a
yfhA	putative an	0.91	0.06	1	0.92	0.23	1	1
	putative tra	1.02	0.04	1	1.06	0.12	1	0.99
		0.05	0.01	1	0.7	0.13	1	n/a
pflA	pyruvate fo	1.04	0.07	1	0.91	0.2	1	0.91
ycbB	putative ex	0.97	0.06	1	0.86	0.09	1	0.77
yiiP	putative tra	1.02	0.06	1	1.16	0.23	1	1.26
	putative ex	0.9	0.06	1	1.25	0.17	1	1.17
	hypothetica	0.87	0.06	1	1.08	0.23	1	1.2
frdB	fumarate re	0.91	0.12	1	1.18	0.24	1	1.2
	live tail assembly protei	0.11	0.01	1	0.86	0.16	1	n/a
focA	probable fc	1.04	0.12	1	0.89	0.16	1	0.78
int	integrase	0.98	0.13	1	0.81	0.18	1	0.85
metH	B12-depen	0.95	0.12	1	1.19	0.21	1	1.18
	ne protein	0.26	0.05	1	1.22	0.16	1	n/a
	putative lipi	0.87	0.12	1	1.34	0.14	1	1.17
	arginine de	1.01	0.08	1	1.18	0.13	1	1.22
	putative ph	1.16	0.1	1	0.87	0.14	1	0.91
	putative tra	0.98	0.06	1	1.03	0.17	1	0.96
	conserved	0.92	0.06	1	0.72	0.16	1	0.71
	regulator, LysR family	0.07	0.02	1	1.03	0.17	1	n/a
grxB	glutaredoxi	1.03	0.02	1	0.9	0.26	1	0.82
thiH	thiamine bi	0.82	0.07	1	1.26	0.1	1	1.37
	putative so	0.99	0.05	1	0.75	0.07	1	0.81
yjeF	conserved	0.85	0.05	1	1.24	0.09	1	1.16
		0.2	0.04	1	0.76	0.05	1	n/a
napF	ferredoxin-	0.89	0.04	1	0.91	0.16	1	0.8
	putative MF	1.09	0.11	1	0.92	0.08	1	0.9
	rotein	0.1	0	1	0.68	0.09	1	n/a
yojI	putative AE	1.11	0.19	1	0.89	0.15	1	0.87
	conserved	1.08	0.11	1	1.15	0.26	1	0.73
	putative an	1.11	0.13	1	0.93	0.15	1	1.01
usg	putative se	1.04	0.06	1	1.02	0.19	1	0.8

celB	PTS system	1.05	0.18	1	0.73	0.16	1	0.83
ssaV	putative tyrosine phosphatase	0.96	0.09	1	0.73	0.12	1	0.79
asnC	regulatory protein	1.05	0.12	1	1.37	0.21	1	1.46
safD	putative firmenone synthase	1.04	0.08	1	1.1	0.11	1	0.91
rnhB	ribonuclease	1.02	0.07	1	1.13	0.15	1	0.89
ubiA	4-hydroxyubiquinol synthase	0.94	0.08	1	1.18	0.25	1	1.07
	putative fatty acid synthase	0.94	0.06	1	0.93	0.07	1	0.98
ftsQ	cell division protein	1.02	0.05	1	1.19	0.18	1	0.97
astA	arginine N-ferrous flavoprotein	0.85	0.05	1	1.03	0.19	1	0.87
	conserved	0.09	0.01	1	0.75	0.11	1 n/a	
	conserved	0.91	0.1	1	1.31	1.98	0	0.7
smvA	methyl violarone synthase	0.85	0.03	1	0.74	0.3	1	0.73
ssaP	putative tyrosine phosphatase	0.94	0.04	1	0.96	0.32	1	0.79
proY	proline-specific aminotransferase	1.08	0.2	1	0.97	0.1	1	0.82
napC	cytochrome c	1.11	0.09	1	1	0.22	1	0.95
yfhH	putative transaminase	0.98	0.1	1	0.99	0.11	1	1.05
	conserved	1.04	0.16	1	0.84	0.07	1	0.86
yabl	DedA family protein	1.17	0.12	1	1.07	0.14	1	0.9
ppdD	prepilin peptidase	0.98	0.1	1	0.98	0.27	1	1.1
gyrA	DNA gyrase	0.94	0.09	1	0.95	0.11	1	0.97
cysP	thiosulphate reductase	0.96	0.06	1	1	0.11	1	0.96
glnP	glutamine tRNA synthetase	1.1	0.05	1	0.81	0.08	1	0.87
erfK	putative export protein	1.06	0.05	1	0.81	0.11	1	0.79
fepD	ferric enterobactin receptor	0.97	0.06	1	1.13	0.21	1	0.86
	similar to minor tail protein	0.09	0.01	1	1.12	0.22	1 n/a	
		0.26	0.1	1	1.12	0.47	0 n/a	
	putative glycerol-3-phosphate dehydrogenase	0.88	0.08	1	1.39	0.13	1	1.38
dppA	periplasmic diacylglycerol phosphatase	0.93	0.09	1	1.19	0.13	1	1.28
ugpB	glycerol-3-phosphate dehydrogenase	1.01	0.03	1	1.23	0.12	1	1.29
acT	hypothetical protein	0.97	0.05	1	0.81	0.03	1	0.77
	putative GTPase	1	0.06	1	0.87	0.21	1	1
acrR	potential acyltransferase	1.08	0.19	1	1.07	0.24	1	0.95
	hypothetical protein	1.12	0.14	1	0.97	0.2	1	0.95
ytfE	conserved	1.22	0.12	1	1.19	0.07	1	1.17
trpS2	probable tryptophan synthase	1.03	0.1	1	1.23	0.17	1	1.27
	conserved	1.06	0.09	1	1.18	0.07	1	1.18
yiaB	putative membrane protein	1.11	0.15	1	1.27	0.25	1	1.13
	possible LytR family protein	1.03	0.1	1	1.13	0.23	1	1.18
rpe	ribulose-phosphate carboxylase	1.01	0.03	1	1.18	0.17	1	1.25
gyrB	DNA gyrase	0.93	0.1	1	1.46	0.35	1	1.47
hisF	cyclase HisG	1.06	0.07	1	0.91	0.18	1	0.91
tsx	nucleoside diphosphate kinase	0.87	0.06	1	1.17	0.32	1	0.95
pyrF	orotidine-5-phosphate decarboxylase	0.98	0.04	1	0.79	0.11	1	0.79
sun	sun protein	0.93	0.05	1	1.17	0.09	1	1.32
aroB	3-dehydroquinate synthase	1	0.06	1	1.18	0.1	1	1.21
fliD	flagellar hook protein	0.91	0.05	1	0.99	0.3	1	0.91
rnc	ribonuclease	0.94	0.07	1	1.04	0.13	1	1.18
eutE	putative alcohol dehydrogenase	0.93	0.06	1	1.1	0.17	1	0.93
mobB	molybdopterin biosynthesis protein	0.94	0.07	1	1.29	0.25	1	1.23
spaM	secretory protein	1.13	0.15	1	1.08	0.1	1	1.07
msgA	putative virulence factor	1.22	0.11	1	1.05	0.85	0	0.85
sipB	pathogenicity island protein	1	0.17	1	1.06	0.18	1	1.06

	putative me	1	0.1	1	0.85	0.1	1	0.86
ybiK	putative L-ε	1.04	0.07	1	0.92	0.13	1	0.78
yhfC	putative me	1.03	0.12	1	1.03	0.16	1	1.19
pduL	conserved	1.02	0.12	1	0.81	0.07	1	0.8
phnB	conserved	0.98	0.08	1	1.22	0.13	1	1.16
yebC	conserved	0.94	0.09	1	0.69	0.06	1	0.82
yhcQ	possible ex	0.96	0.05	1	1.33	0.28	1	1.28
rpsT	30S riboso	1.02	0.08	1	1.33	0.27	0	1.07
	conserved	1	0.08	1	0.96	0.1	1	0.87
	hypothetica	0.9	0.09	1	0.86	0.38	0	0.74
yihR	conserved	0.88	0.04	1	1.28	0.14	1	1.42
slrP		0.83	0.05	1	1.05	0.19	1	0.88
pduO	conserved	0.94	0.05	1	0.85	0.14	1	0.85
melA	alpha-galac	0.93	0.07	1	1.11	0.19	1	1.21
	conserved	1.06	0.1	1	0.77	0.09	1	0.89
yeeC		1.12	0.13	1	0.8	0.1	1	0.97
	putative typ	0.92	0.17	1	1.17	0.07	1	1.3
	conserved	1.11	0.14	1	0.95	0.26	0	1.07
ribF	riboflavin b	1.11	0.15	1	1.04	0.13	1	0.98
nrdG	anaerobic r	0.91	0.1	1	1.21	0.26	1	1.2
	putative ex	0.92	0.13	1	0.69	0.13 n/a		0.83
rfe	putative un	1.07	0.11	1	1.32	0.21	1	1.33
pldB	lysophosph	1	0.1	1	1.44	0.28	1	1.2
ygdE	conserved	0.89	0.1	1	1.02	0.16	1	1.14
rplK	50S riboso	0.93	0.04	1	1.25	0.23	1	1.55
flgH	flagellar L-r	0.97	0.07	1	0.76	0.16	1	0.76
nirC	putative nit	0.9	0.07	1	1.11	0.09	1	1.13
argR	arginine rej	0.89	0.04	1	1.09	0.11	1	1.34
	conserved	0.96	0.05	1	1.19	0.2	1	1.19
hsIV	heat shock	0.93	0.09	1	1.33	0.36	1	1.39
fadB	large (alph	0.94	0.03	1	1.19	0.23	1	1.33
	putative req	0.79	0.05	1	1.27	0.35	1	1.35
yigB	conserved	0.95	0.06	1	1.39	0.23	1	1.16
cyaA	adenylate c	0.94	0.12	1	1.24	0.26	1	1.16
	putative tra	1.04	0.22	1	0.76	0.11	1	0.77
rpoC	DNA-direct	0.96	0.1	1	1.28	0.15	1	1.43
fabI	enoyl-[acyl-	1.03	0.14	1	0.92	0.2	1	0.79
cheR	chemotaxis	0.96	0.13	1	0.87	0.12	1	0.86
yqcB	putative RM	0.96	0.04	1	1.1	0.29	1	1.18
	probable su	1.09	0.13	1	0.82	0.11	1	0.79
gcl	glyoxylate c	0.92	0.05	1	0.93	0.15	1	0.9
ycbL	conserved	1	0.09	1	0.99	0.17	1	0.77
narW	respiratory	1.07	0.08	1	0.7	0.09	1	0.71
stbE	fimbrial cha	0.91	0.07	1	1.05	0.15	1	0.94
yciC	putative me	0.96	0.02	1	0.89	0.32	1	0.75
pth	peptidyl-tR	0.95	0.04	1	0.79	0.09	1	0.89
fadD	long-chain-	1.01	0.03	1	0.69	0.17	1	0.78
	putative me	0.92	0.06	1	0.76	0.24	1	0.81
	conserved	0.89	0.04	1	0.87	0.11	1	0.97
	integral me	0.95	0.03	1	0.93	0.1	1	0.89
	molybdopte	0.97	0.06	1	1.03	0.15	1	0.89
dpiB	sensor kin	1.02	0.21	1	0.92	0.1	1	0.84

msbA	probable tr	1.11	0.16	1	0.79	0.23	1	0.75
	conserved	0.81	0.15	1	0.95	0.13	1	0.88
tehB	tellurite res	1.06	0.11	1	0.8	0.18	1	0.76
protein;	predicted bacte	0.27	0.07	1	0.65	0.07	1	n/a
	putative DN	1.09	0.17	1	0.79	0.1	1	0.81
yhjK	conserved	0.99	0.11	1	1.23	0.19	1	1.2
rotein		1.04	0.13	1	1.18	0.12	1	n/a
		1.03	0.11	1	1.42	0.14	1	1.26
hycE	formate hy	0.95	0.14	1	1.08	0.16	1	1.1
fucP	L-fucose pe	0.94	0.04	1	1.12	0.09	1	1.08
	putative ty	0.96	0.06	1	1.08	0.16	1	1.13
yajI	putative lip	0.96	0.05	1	0.98	0.18	1	0.92
lon	Lon protea	0.91	0.05	1	1.07	0.16	1	0.89
nikR	nickel resp	0.98	0.08	1	1.23	0.21	1	1.29
sociated,	metal-depend	0.86	0.06	1	1.23	0.2	1	1.31
	putative tra	0.99	0.09	1	1.31	0.31	1	1.31
	conserved	0.83	0.06	1	1.44	0.27	1	1.37
yafD	conserved	0.93	0.17	1	1.03	0.05	1	0.92
tgt	queueine tR	1.06	0.15	1	1.02	0.15	1	0.91
hybF	hydrogena	0.95	0.14	0	1.28	0.18	0	0.82
emrB	multidrug r	0.91	0.11	1	1	0.08	1	1.07
yhjV	putative an	1.09	0.1	1	1.17	0.14	1	1.28
	putative su	0.92	0.15	1	1.26	0.3	1	1.16
greA	transcriptio	0.93	0.15	1	1.14	0.13	1	1.37
	conserved	1.03	0.06	1	1.11	0.15	1	1.23
exuT	hexuronate	1.1	0.12	1	1.15	0.27	1	1.22
alaS	alanyl-tRN	0.96	0.07	1	1.05	0.11	1	1.06
mgIB	D-galactos	1.03	0.12	1	0.84	0.11	1	0.87
	putative me	1.02	0.05	1	0.94	0.12	1	0.93
ygaA	putative sig	0.98	0.05	1	1.03	0.12	1	1.06
yejB	putative bir	0.96	0.04	1	0.87	0.19	1	0.88
		0.14	0.03	1	0.97	0.2	1	n/a
yehW	putative pe	0.98	0.04	1	1.01	0.11	1	0.8
ybjU	L-allo-threc	0.82	0.04	1	0.94	0.18	1	0.81
rpIN	50S riboso	1	0.09	1	1.07	0.18	1	1.21
stcD	putative ex	1.12	0.17	1	0.82	0.08	1	0.85
	putative ge	1.1	0.13	1	0.78	0.1	1	0.8
prlA	preprotein	1.09	0.11	1	1.16	0.18	1	1.31
pitA	putative lov	1.15	0.1	1	1.15	0.23	1	1.35
	putative Gr	1.01	0.07	1	1.13	0.19	1	1.32
mrr	mrr restrict	1.05	0.08	1	1.18	0.24	1	1.14
ytfN	putative ex	1.02	0.06	1	1.08	0.15	1	1.17
holD	DNA polym	1.09	0.13	1	1.15	0.12	1	1.18
blc	putative lip	1.03	0.09	1	1.27	0.11	1	1.2
yjgF	conserved	0.95	0.05	1	1.18	0.09	1	1.18
gatY	tagatose-bi	1.04	0.06	1	1.12	0.18	1	1.27
	haemolysir	0.98	0.09	1	0.97	0.12	1	1.01
ptsN	nitrogen re	0.97	0.09	1	1.18	0.1	1	1.46
	putative me	1.08	0.07	1	1.17	0.16	1	1.16
dksA	dosage-dej	1.03	0.06	1	0.89	0.19	1	0.95
sscB	putative pa	1.04	0.1	1	0.77	0.25	1	1.04
xerD	site-specifi	1.01	0.03	1	1.09	0.03	1	1.05

roetin		0.25	0.07	1	0.9	0.1	1	n/a	
sseB	putative pa	1.19	0.16	1	0.65	0.12	1		0.71
sigE	cell invasio	1.21	0.19	1	0.84	0.22	1		0.74
		0.96	0.09	1	0.92	0.21	1		0.93
hutG	formiminog	1.04	0.09	1	0.95	0.08	1		0.69
ybiF	putative me	1.08	0.13	1	0.86	0.1	1		0.79
	putative me	1.12	0.12	1	1.05	0.09	1		1.12
	hypothetica	1.08	0.13	1	1.14	0.19	1		1.22
yajC	putative me	1.03	0.08	1	1.04	0.14	1		0.93
hha	haemolysir	0.92	0.13	1	1.13	0.17	1		0.98
exbB	biopolymer	0.98	0.11	1	1.21	0.1	1		1.12
	possible lip	1.04	0.11	1	1.1	0.18	1		1.11
cspB	cold shock	0.96	0.11	1	0.91	0.12	1		0.99
fdhF	formate de	0.86	0.04	1	1.26	0.12	1		1.37
	conserved	0.99	0.06	1	1.2	0.19	1		1.18
yjel	putative me	0.96	0.04	1	1.11	0.15	1		1.18
	conserved	1.05	0.08	1	0.8	0.16	1		0.83
ne protein		0.46	0.12	1	1.28	0.21	1	n/a	
	putative lipi	0.95	0.06	1	0.87	0.14	1		0.91
ccmC1	heme expo	1.07	0.15	1	1.17	0.21	n/a		1.02
	hypothetica	1.01	0.18	1	1.02	0.2	1		1.1
	putative ph	1.09	0.08	1	0.66	0.16	1		0.54
	conserved	0.89	0.11	1	0.68	0.11	1		0.81
	conserved	1.28	0.18	1	0.66	0.03	1		0.86
holE	DNA polym	1.02	0.12	1	0.8	0.1	1		0.96
hofB	protein trar	0.96	0.09	1	1.06	0.23	1		0.93
	probable pi	1.01	0.07	1	1.32	0.15	1		1.26
	conserved	0.97	0.12	1	1.47	0.1	1		1.2
ribH	6,7-dimethy	0.97	0.06	1	1.04	0.08	1		0.95
	conserved	0.93	0.16	0	1.36	0.22	0		1.11
roetin		0.97	0.13	1	1.31	0.48	0	n/a	
	putative lipi	1.04	0.06	1	0.84	0.3	1		0.81
pspD	phage sho	1.02	0.14	1	0.87	0.09	1		0.78
roetin		0.9	0.08	0	1.31	0.38	0	n/a	
	putative me	1.07	0.06	1	0.92	0.44	0		0.71
		0.27	0.03	1	1.12	0.49	0	n/a	
	putative me	0.98	0.16	1	1.32	0.3	0		0.84
1		0.06	0.01	1	0.65	0.11	n/a		n/a
roetin		0.06	0.02	1	0.65	0.06	n/a		n/a
		0.04	0.05	1	0.68	0.12	n/a		n/a
		0.05	0.01	1	0.68	0.04	n/a		n/a
eshifts		0.05	0.02	1	0.64	0.07	n/a		n/a
ame stops		0.07	0.02	1	0.7	0.07	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		n/a	n/a	n/a	n/a	n/a	n/a		n/a
		1	0.06	1	0.79	0.12	n/a		1.02
	putative ba	0.71	0.07	1	0.82	0.08	1		0.75
		0.08	0.02	1	0.89	0.06	1	n/a	
ne protein		0.95	0.08	1	1.07	4.81	1	n/a	



		1.01	0.08	1	1.12	0.11	n/a	1.06
		0.91	0.1	1	1.11	0.08	n/a	1.08
		0.99	0.02	1	0.8	0.14	n/a	0.78
	hypothetica	7.47	1.8	1	n/a	n/a	n/a	0.77
	hypothetica	10.61	1.62	1	n/a	n/a	n/a	0.71
	putative ba	20.49	1.92	1	n/a	n/a	n/a	0.67
	hypothetica	1.72	0.32	1	n/a	n/a	n/a	0.93
	putative ba	11.2	1.94	1	n/a	n/a	n/a	0.85
steB	outer mem	10.15	1.45	1	n/a	n/a	n/a	1.16
	conserved	19.87	2.42	1	n/a	n/a	n/a	0.69
	putative ba	8.7	0.65	1	n/a	n/a	n/a	0.69
	hypothetica	7.2	1.61	1	n/a	n/a	n/a	0.87
	putative ex	12.08	1.54	1	n/a	n/a	n/a	0.92
steD	fimbrial sut	10.49	3.69	1	n/a	n/a	n/a	1.06
	hypothetica	1.95	0.28	1	n/a	n/a	n/a	1.13
	hypothetica	5.57	2.93	1	n/a	n/a	n/a	0.71
	putative ba	15.93	4.26	1	n/a	n/a	n/a	0.83
	putative se	13.07	3.07	1	n/a	n/a	n/a	0.79
	putative ba	15.36	4.86	1	n/a	n/a	n/a	0.84
	hypothetica	6.06	2.01	1	n/a	n/a	n/a	1.3
	probable bi	7.03	3.35	1	n/a	n/a	n/a	1.26
	putative ba	13.72	2.24	1	n/a	n/a	n/a	0.81
	putative ba	25.58	3.17	1	n/a	n/a	n/a	0.69
	hypothetica	9.34	2.43	1	n/a	n/a	n/a	1.13
	conserved	5.01	1	1	n/a	n/a	n/a	0.84
rfbX	putative O-	11.44	4.49	1	n/a	n/a	n/a	0.81
	putative ex	8.36	2.01	1	n/a	n/a	n/a	0.83
ssB	single strar	9.52	1.59	1	n/a	n/a	n/a	1.13
	hypothetica	22.37	3.54	1	n/a	n/a	n/a	1.23
	hypothetica	28.31	11.19	1	n/a	n/a	n/a	1.04
	hypothetica	11.59	4.9	1	n/a	n/a	n/a	1.12
	putative arr	12.04	3.4	1	n/a	n/a	n/a	1.12
pilL	putative ex	22.04	8.09	1	n/a	n/a	n/a	1.09
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
caiB	L-carnitine	1	0.07	1	1.07	0.13	1	1.16
	conserved	1.05	0.11	1	1.09	0.15	1	1.36
ttdB	tartrate def	0.96	0.08	1	1.08	0.09	1	1.32
	putative ex	0.68	0.06	1	1.1	0.11	1	1.44
perone, DnaJ family		0.07	0.02	1	0.86	0.1	1	n/a
	lysR-family	0.93	0.08	1	1.06	0.19	1	0.93
dxr	1-deoxy-D-	0.91	0.1	1	1.24	0.37	1	1.12
rspA	starvation s	0.91	0.08	1	0.88	0.38	1	0.73
hyaD2	hydrogenas	1.02	0.24	1	0.7	0.72	1	0.8
treR	trehalose o	0.87	0.1	1	1.07	0.14	1	1.16
cbiC		0.76	0.06	1	0.78	0.2	1	0.81
talB	transaldola	0.9	0.11	1	0.99	0.15	1	1.16
trpD	anthranilate	0.95	0.12	1	0.87	0.15	1	0.81

cbiM		0.94	0.08	1	0.76	0.12	1	0.74
trpB	tryptophan	0.87	0.11	1	0.71	0.2	1	0.81
		0.45	0.07	1	1	0.26	1	n/a
hepA	probable A	0.96	0.12	1	1.26	0.34	1	1.12
codB	cytosine pe	0.98	0.09	1	0.98	0.11	1	1.27
fiber assembly like-prot		0.15	0.02	1	0.78	0.14	1	n/a
copR	response r	0.88	0.04	1	0.77	0.25	1	0.86
	conserved	1.01	0.12	1	1.04	0.28	1	0.77
rimJ	ribosomal-p	1.05	0.13	1	0.93	0.42	1	0.76
	conserved	1.02	0.06	1	0.8	0.21	1	0.86
	putative me	1.07	0.03	1	0.77	0.18	1	0.77
htrB	lipid A bios	0.98	0.1	1	0.83	0.25	1	0.83
	conserved	0.95	0.09	1	0.99	0.3	1	0.72
glpD	aerobic gly	0.77	0.09	1	1.35	0.21	1	1.44
ggt	gamma-glu	0.84	0.08	1	1.24	0.16	1	1.37
yjJA	putative se	0.92	0.14	1	1.44	0.3	1	1.16
yjJX		0.47	0.1	1	1.25	0.41	1	1.17
	putative ba	1.09	0.14	1	0.93	0.18	0	0.86
	putative me	0.96	0.1	1	1.17	0.11	1	1.19
rob	right origin-	0.94	0.11	1	1.2	0.21	1	1.2
		0.96	0.09	1	1.02	0.13	1	1.07
osphate synthase		0.12	0.03	1	1.19	0.32	1	n/a
iroD	putative fer	0.96	0.12	1	1.11	0.13	1	1.21
iron protein		0.11	0.01	1	1.35	0.23	1	n/a
rotein		0.27	0.03	1	1.07	0.22	1	n/a
ine protein		0.32	0.04	1	0.96	0.11	1	n/a
iroN	TonB-depe	0.97	0.1	1	1.01	0.08	1	1.14
rotein		1.1	0.14	1	1.22	0.25	1	n/a
hpchH	2,4-dihydro	0.89	0.03	1	0.92	0.14	1	0.83
	putative de	0.84	0.11	1	1.02	0.27	1	0.99
	putative ac	1.02	0.08	1	0.82	0.08	1	1.03
gcvR	glycine clea	1.13	0.07	1	0.86	0.12	1	1.03
ycaD	probable tr	0.99	0.1	1	0.82	0.1	1	0.83
mukE	KicA protei	1.07	0.13	1	0.86	0.13	1	0.83
	hypothetica	0.98	0.15	1	1.3	0.06	n/a	1.33
	putative RM	0.92	0.13	1	0.89	0.11	1	1.05
ilar to phage tail assem		0.11	0.04	1	0.83	0.36	1	n/a
	conserved	1.02	0.14	1	1.17	0.21	1	1.51
yjJP	putative me	0.95	0.08	1	1.14	0.16	1	1.42
	conserved	0.99	0.12	1	1.15	0.25	1	1.15
rotein		0.1	0.02	1	1.01	0.08	1	n/a
	putative me	0.92	0.05	1	0.99	0.26	1	1.11
cadB	probable ca	0.96	0.09	1	0.93	0.15	1	0.96
		0.1	0.04	1	0.95	0.2	n/a	n/a
	putative Gr	0.89	0.13	1	1.33	0.08	1	1.47
ike IIB component 1		0.22	0.03	1	1.07	0.05	1	n/a
hypD	hydrogenas	0.97	0.11	1	1.11	0.08	1	1.14
endonuclease		0.05	0.01	1	1.05	0.08	1	n/a
	putative me	0.94	0.07	1	1.15	0.14	1	1.03
	putative pr	0.59	0.16	1	1	0.39	1	0.86
	conserved	1.08	0.13	1	0.86	0.31	1	0.87
	putative me	1.06	0.13	1	0.7	0.05	1	0.76

trmU	tRNA (5-mi	1.01	0.13	1	0.75	0.12	1	0.77
	putative Te	0.94	0.15	1	0.89	0.27	1	0.8
bigA		0.48	0.08	1	1.04	0.14	1	1.12
	putative ex	1.02	0.12	1	0.7	0.11	1	0.96
regulator		0.37	0.03	1	1.12	0.1	1 n/a	
		0.08	0.02	1	1.1	0.08	1 n/a	
nase		0.12	0.03	1	1.12	0.11	1 n/a	
porter		0.05	0.01	1	1.12	0.13	1 n/a	
		0.16	0.02	1	1.13	0.14	1 n/a	
		0.32	0.05	1	1.17	0.09	1	1.11
	putative tra	0.93	0.07	1	0.92	0.1	1	0.93
flhD	flagellar tra	0.98	0.11	1	1.03	0.33	0	0.86
btuE	putative gl	1.1	0.14	1	0.74	0.13	1	0.78
ugd	UDP-gluco	0.87	0.02	1	0.82	0.07	1	1.01
recF	recF protei	0.79	0.1	1	1.34	0.18	1	1.53
yfhC	conserved	0.93	0.05	1	1.07	0.22	1	1.08
mtn	MTA/SAH i	0.94	0.13	1	1.01	0.11	1	0.97
ftsW	cell divisor	0.96	0.04	1	0.99	0.16	1	0.91
tbpA	thiamine-bi	0.81	0.08	1	0.92	0.19	1	1.01
	conserved	0.93	0.12	1	1.04	0.4	1	1.09
	conserved	0.9	0.13	1	0.77	0.15	1	0.81
fliO	flagellar pr	1.15	0.19	1	0.9	0.04	1	0.86
	hydroxyeth	0.9	0.09	1	0.78	0.12	1	0.89
fumC	fumarate h	0.91	0.1	1	0.82	0.14	1	0.8
	CDP-abequose synthe	0.22	0.04	1	0.85	0.18	0 n/a	
rbcC	dTDP-4-de	0.78	0.08	1	0.76	0.27	1	1.04
	putative hy	0.92	0.11	1	1.46	0.13	1	1.55
pyrH	uridine 5'-n	1	0.08	1	1.01	0.11	1	0.98
dxs	1-deoxyxyl	0.92	0.07	1	1.07	0.36	1	1.06
secA	preprotein i	0.9	0.07	1	1.01	0.26	1	1.1
nuoJ	NADH dehy	1.07	0.05	1	0.9	0.07	1	0.89
		0.35	0.07	0	1.16	0.44	0 n/a	
	putative DN	0.59	0.05	1	0.82	0.04 n/a		0.73
	putative AE	0.95	0.07	1	0.96	0.17	1	0.85
fsr	fosmidomy	1.03	0.12	1	0.97	0.14	1	0.83
frdC	fumarate re	1.03	0.11	1	1.1	0.17	1	1.26
ilar to terminase large c		0.05	0.01	1	0.97	0.14	1 n/a	
	hypothetica	0.53	0.08	1	0.87	0.12 n/a		0.79
tolC	outer mem	0.89	0.11	1	1.16	0.08	1	1.35
	probable ai	1	0.12	1	1.12	0.06	1	1.12
gatD	galactitol-1	1.03	0.13	1	1.14	0.14	1	1.26
ais	Ais protein	0.89	0.09	1	0.96	0.1	1	1.02
ligA	DNA ligase	0.87	0.07	1	0.81	0.16	1	1.01
garR	2-hydroxy-	1.02	0.12	1	1.15	0.24	1	0.91
	putative ex	1.03	0.1	1	1.1	0.09 n/a		1.09
ilar to major tail protein		0.09	0.02	1	0.87	0.37	1 n/a	
		0.17	0.03	1	1.21	0.27 n/a	n/a	
pssA	CDP-diacyl	1.05	0.12	1	1.16	0.12	1	1.24
bacA	bacitracin r	1.19	0.13	1	1.07	0.09	1	1
	hypothetica	0.95	0.1	1	1.17	0.25	1	1.27
	ATP-deper	0.93	0.08	1	1.15	0.08	1	1.4
	thiamine-m	0.96	0.07	1	0.92	0.07	1	0.82

cysM	cysteine sy	0.88	0.07	1	0.89	0.07	1	0.95
moeB	molybdopte	0.97	0.08	1	0.94	0.18	1	0.76
dnaQ	DNA polym	0.9	0.09	1	1.08	0.13	1	1.03
ssaU	putative typ	1.08	0.1	1	0.75	0.12	1	0.82
hisM	histidine tra	0.96	0.11	1	0.83	0.15	1	0.84
dnaJ	DnaJ prote	1.01	0.14	1	1.25	0.23	1	1.08
tonB	TonB prote	0.89	0.1	1	0.68	0.1	1	0.73
eutK	ethanolami	0.84	0.08	1	0.87	0.11	1	0.93
yneB	putative alc	0.96	0.1	1	1.24	0.24	1	1.46
carA	carbamoyl-	0.83	0.06	1	1.11	0.19	1	1.04
eutH	putative me	0.96	0.06	1	0.9	0.2	1	0.93
argH	argininosuc	1.03	0.05	1	1.2	0.06	1	1.27
ybgR	probable ca	1.02	0.09	1	0.84	0.06	1	0.88
tolR	tolR proteir	1	0.09	1	1.02	0.21	1	0.93
nrde	ribonucleos	0.86	0.08	1	1.11	0.15	1	1.2
marA	multiple an	1.09	0.05	1	0.74	0.24	1	0.72
sicP	chaperone	0.77	0.08	1	1.01	0.13	1	1.07
	conserved	1.01	0.07	1	0.84	0.1	1	0.79
	putative me	0.96	0.09	1	1.06	0.06	1	1.42
yaeQ	conserved	0.86	0.1	1	1.04	0.23	1	0.86
phoP	transcriptio	1.03	0.08	1	0.79	0.16	1	0.79
nfi	putative en	0.96	0.12	1	1.2	0.11	1	1.3
	hypothetica	1.08	0.15	1	1.14	0.43	0	0.97
aidB	probable ar	0.92	0.09	1	1.2	0.2	1	1.19
spiC	putative pa	1.07	0.15	1	0.6	0.15	1	0.86
fabH	3-oxoacyl-[	0.93	0.12	1	0.81	0.34	1	0.78
	putative req	0.91	0.1	1	0.61	0.13	1	0.81
	putative me	1.01	0.09	1	0.8	0.16	1	0.83
		1	0.07	1	1.09	0.11	n/a	1.17
		0.13	0.02	1	0.82	0.06	n/a	n/a
csgD	putative req	0.98	0.08	1	0.9	0.12	1	0.84
	putative me	0.85	0.08	1	0.87	0.09	1	0.89
yjaH	conserved	0.93	0.06	1	1.28	0.11	1	1.34
yigC	conserved	0.99	0.04	1	1.27	0.14	1	1.32
yigF	putative me	1.1	0.08	1	1.28	0.15	1	1.32
trxA	thioredoxin	1.05	0.1	1	1.22	0.15	1	1.28
narG	respiratory	0.96	0.1	1	0.71	0.1	1	0.64
	conserved	1.08	0.16	1	0.98	0.22	1	0.87
	conserved	0.91	0.07	1	0.96	0.28	1	0.8
aas	2-acylglyce	0.89	0.09	1	1.2	0.19	1	1.07
invE	cell invasio	0.99	0.12	1	1.07	0.16	1	1.18
	putative ph	1.14	0.11	1	1.17	0.24	1	1.02
pduK	putative pr	1.06	0.1	1	0.85	0.16	1	0.84
narU	nitrite extru	0.92	0.08	1	0.75	0.1	1	0.75
	putative me	0.87	0.06	1	1.35	0.27	1	1.42
	conserved	0.89	0.04	1	1.37	0.17	1	1.27
ilvL	ilvGMEDA	1.1	0.17	0	1.44	0.15	0	1.09
ilar to host specificity pr		0.06	0.01	1	0.86	0.05	n/a	n/a
dsbB	disulfide bc	0.93	0.07	1	0.72	0.12	1	0.85
	conserved	0.91	0.08	1	0.96	0.23	0	0.79
cysN	ATP sulfur	0.92	0.05	1	1.03	0.09	1	1.18
yebE	conserved	0.93	0.08	1	0.73	0.08	1	0.82

rna	ribonucleas	0.97	0.08	1	1	0.15	1	0.89
	putative m	1.07	0.08	1	0.64	0.07	1	0.7
entA	2,3-dihydro	1.03	0.09	1	0.92	0.11	1	0.79
	conserved	1.08	0.12	1	0.83	0.15	1	0.78
regulator		0.18	0.02	1	0.76	0.13	1	n/a
	probable T	0.95	0.09	1	0.65	0.07	1	0.76
	conserved	0.97	0.12	1	0.78	0.12	1	0.84
	putative AE	1.05	0.18	1	0.64	0.08	1	0.76
znuC	high-affinity	0.98	0.08	1	0.83	0.11	1	0.84
	probable lip	0.93	0.1	1	0.88	0.2	1	0.72
ybbW		0.88	0.11	1	1.14	0.2	1	0.89
allB	putative all	0.99	0.08	1	0.93	0.09	1	0.9
lolA	outer mem	1.01	0.06	1	0.84	0.06	1	0.82
	conserved	0.93	0.1	1	0.77	0.16	1	0.72
ne protein		0.89	0.09	1	0.8	0.38	1	n/a
appC	cytochrome	0.99	0.04	1	0.67	0.06	1	0.85
	putative m	0.91	0.1	1	0.8	0.15	1	0.85
	possible A	0.95	0.1	1	1.16	0.17	1	1.09
yiaN	putative m	1.13	0.1	1	1.3	0.09	1	1.17
ft		0.36	0.03	1	0.72	0.13	1	n/a
	hypothetica	1	0.1	1	1.38	0.17	1	1.23
	putative m	1.04	0.13	1	1.12	0.23	1	1.15
	conserved	0.95	0.1	1	1.02	0.12	1	1.17
regulator, LysR family		0.07	0.01	1	1.09	0.17	1	n/a
nt RNA helicase-like pr		0.93	0.11	1	1.04	0.11	1	n/a
	putative fla	0.93	0.09	1	1.05	0.11	1	1.08
speA	biosynthetic	0.88	0.09	1	1.14	0.13	1	1.24
rotein		0.26	0.05	1	1.13	0.22	1	n/a
		0.88	0.1	1	1.09	0.23	1	1.13
drogenase		0.13	0.01	1	1.13	0.17	1	n/a
		0.93	0.05	1	1.05	0.13	n/a	1.21
ybaX	conserved	0.93	0.06	1	1.09	0.17	1	0.97
uspB	universal s	1.07	0.08	1	1.22	0.38	1	1.1
	conserved	1.04	0.15	1	0.93	0.15	1	1.03
		0.78	0.07	1	1.06	0.19	n/a	0.93
pmbA	putative Pn	0.88	0.13	1	1.3	0.21	1	1.15
osmY	Putative pe	1.01	0.09	1	1.07	0.15	1	1.17
	putative tra	0.92	0.12	1	1.02	0.12	1	1.12
	putative RN	0.89	0.07	1	0.78	0.09	1	0.83
rtn	rtn protein	0.91	0.12	1	0.86	0.09	1	0.88
	putative ex	0.93	0.08	1	0.75	0.06	1	0.84
baeR	putative tw	0.95	0.14	1	0.82	0.11	1	0.89
nfo	endonuclea	0.95	0.1	1	0.87	0.08	1	0.93
udk	uridine kin	1.05	0.1	1	0.93	0.39	1	0.98
proP	ProP effect	0.97	0.11	1	0.74	0.09	1	0.92
yibK	putative RN	0.96	0.15	1	1.19	0.13	1	1.27
yiaD	putative ou	1.18	0.23	0	1.47	0.37	0	0.67
yeiB	putative m	0.91	0.04	1	0.9	0.13	1	0.92
hemK	HemK prot	0.84	0.07	1	0.74	0.13	1	0.82
	hypothetica	0.97	0.11	1	1.09	0.15	1	1.22
		0.59	0.06	1	0.86	0.18	n/a	0.78
yjFM	conserved	0.94	0.09	1	1.09	0.09	1	1.11

icc	conserved	0.91	0.06	1	1.17	0.11	1	1.34
	conserved	1.01	0.08	1	1.05	0.09	1	1.27
exbD	biopolymer	0.97	0.03	1	1.11	0.08	1	1.29
	putative me	1.01	0.09	1	1.08	0.15	1	1.06
	conserved	0.98	0.13	1	1.08	0.11	1	1.21
marT		0.97	0.16	1	1.29	0.09	1	1.48
	probable al	0.98	0.09	1	1.07	0.1	1	1.34
fnr	fumarate a	1.01	0.08	1	0.7	0.08	1	0.82
mgtB	Magnesium	0.88	0.12	1	1.29	0.13	1	1.37
	hypothetica	0.74	0.13	1	1.1	0.17	1	1.21
	conserved	0.88	0.09	1	1.15	0.08	1	1.26
	putative ac	0.89	0.24	1	0.84	0.26	1	0.75
ybhE	conserved	0.97	0.12	1	0.89	0.1	1	0.81
	conserved	0.98	0.13	1	1.21	0.24	1	1.19
pqiA	putative inr	1.03	0.05	1	0.7	0.08	1	0.78
tolB	tolB protein	0.82	0.08	1	0.92	0.13	1	0.84
bioF	8-amino-7-	0.94	0.08	1	0.9	0.1	1	0.75
	conserved	1.07	0.04	1	0.97	0.09	1	0.84
pcgL	D-alanyl-D-	0.98	0.07	1	0.67	0.06	1	0.76
cyoD	cytochrome	1.09	0.08	1	0.88	0.12	1	0.97
	hypothetica	1.14	0.07	1	1.1	0.2	1	1.22
	conserved	0.91	0.11	1	1.03	0.04	1	1.12
ybaB	conserved	0.97	0.15	1	0.94	0.11	1	0.92
ybdZ	conserved	0.96	0.19	0	1.24	0.32	0	0.87
upp	uracil phos	1.06	0.06	1	0.91	0.1	1	1.13
ative RecA/RadA recom		0.07	0.02	1	0.81	0.1	1 n/a	
yohN	conserved	1.15	0.12	1	0.79	0.05	1	0.82
	hypothetica	0.87	0.08	1	1.17	0.12	1	1.04
yajD	conserved	0.9	0.09	1	1.06	0.08	1	1.3
grxC	glutaredoxi	0.98	0.09	1	1.25	0.2	1	1.32
yjfO	putative ex	0.77	0.11	1	1.11	0.14	1	1.17
hypC	hydrogenase	0.97	0.08	1	1.05	0.11	1	1.15
	conserved	0.97	0.04	1	0.78	0.08	1	0.78
	putative se	1.01	0.05	1	0.79	0.4	1	0.92
celC	phosphoen	1.1	0.09	1	0.72	0.07	1	0.77
	putative PT	1.01	0.06	1	1.24	0.08	1	1.15
		0.98	0.04	1	1.34	0.09	1	1.29
oadG	oxaloaceta	1.06	0.08	1	1.04	0.13	1	0.86
	putative ch	0.89	0.11	1	1.1	0.1	1	1.02
citC	citrate-sodi	1.01	0.09	1	1.11	0.09	1	1.09
	hypothetica	0.9	0.08	1	1.12	0.03	1	1.05
	putative me	1.05	0.08	1	1.13	0.17	1	1.12
imp	organic sol	0.97	0.11	1	1.08	0.14	1	0.99
	conserved	1.01	0.16	1	1.2	0.56	1	0.7
	putative ph	1.02	0.13	1	0.68	0.08	1	0.86
	putative me	0.99	0.1	1	0.66	0.09	1	0.73
	conserved	0.96	0.1	1	0.64	0.07	1	0.74
rotein		0.19	0.04	1	0.72	0.16	1 n/a	
	conserved	0.95	0.14	1	1.22	0.3	1	1.11
		0.04	0.01	1	0.66	0.1 n/a	n/a	
1		0.05	0.01	1	0.64	0.06 n/a	n/a	
		0.05	0.02	1	0.62	0.08 n/a	n/a	

		0.03	0.01	1	0.62	0.07	n/a	n/a
ssembly		0.04	0.01	1	0.64	0.05	n/a	n/a
		0.09	0.01	1	0.73	0.13	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		0.02	0.01	1	0.61	0.1	n/a	n/a
	putative re	0.89	0.14	1	0.98	0.05		1 1.11
		1.01	0.14	1	1.03	0.03	n/a	1.15
		0.15	0.04	1	0.83	0.12	n/a	n/a
		0.06	0.03	1	0.88	0.05	n/a	n/a
live tail assembly protei		0.11	0.03	1	0.8	0.05		1 n/a
speC		0.93	0.06	1	1.09	0.1		1 1.13
	hypothetica	3.54	0.78	1	n/a	n/a	n/a	0.93
kdpB	potassium-	1.1	0.07	1	0.93	0.1	n/a	0.8
	putative ba	3.46	1.29	1	n/a	n/a	n/a	0.83
	putative ba	15.85	1.72	1	n/a	n/a	n/a	0.82
	putative ba	12.32	1.98	1	n/a	n/a	n/a	0.7
	putative ba	5.88	1.2	1	n/a	n/a	n/a	0.74
	hypothetica	3.49	0.43	1	n/a	n/a	n/a	0.94
	putative ba	2.66	1.2	1	n/a	n/a	n/a	0.77
	putative ba	19.43	6.16	1	n/a	n/a	n/a	0.74
	putative ba	15.16	8.06	1	n/a	n/a	n/a	0.72
	putative me	9.21	2.33	1	n/a	n/a	n/a	0.9
	conserved	28.78	4.12	1	n/a	n/a	n/a	0.88
	putative ba	9.82	1.71	1	n/a	n/a	n/a	0.73
	putative pe	9.13	4.28	1	n/a	n/a	n/a	0.81
	putative ba	14.83	2.69	1	n/a	n/a	n/a	0.76
steF	fimbrial sut	0.95	0.19	0	n/a	n/a	n/a	1
	putative crc	10.53	2.4	1	n/a	n/a	n/a	0.96
	hypothetica	1.59	0.25	1	n/a	n/a	n/a	0.77
	hypothetica	4.71	1.86	1	n/a	n/a	n/a	0.47
		3.25	2.64	1	0.5	0.42	n/a	0.82
	putative ba n.d.	n.d.	n.d.	1	n/a	n/a	n/a	0.7
oadG	oxaloaceta	1.59	0.46	1	1.1	0.47	n/a	0.85
	possible er	2.94	0.12	1	1	0.15	n/a	1.08
	putative re	3.38	1.51	1	n/a	n/a	n/a	1.11
	hypothetica n.d.	n.d.	n.d.	1	n/a	n/a	n/a	1.44
int	bacterioph	26.84	9.26	1	n/a	n/a	n/a	1.11
	Bacterioph	38.65	14.21	1	n/a	n/a	n/a	1.06
hsdS	subunit S c	2.8	0.38	1	1.13	0.17	n/a	1.04
	hypothetica	3.04	0.29	1	n/a	n/a	n/a	1.21
	putative DF	509.67	none	1	n/a	n/a	n/a	1.06
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
		0.23	0.05	1	0.75	0.24		1 n/a

torC		1.02	0.06	1	1.51	0.23	1	1.49
apbA	ApbA	0.89	0.11	1	1.07	0.13	1	0.95
cbiP	putative co	1.06	0.07	1	0.82	0.14	1	0.8
nhaA	Na(+)/H(+)	0.98	0.1	1	1.18	0.23	1	1.07
fixA	FixA protei	0.97	0.18	1	1.17	0.21	1	1.04
rhaT	L rhamnos	1.16	0.06	1	1.41	0.2	1	1.32
plsC	1-acyl-glyc	1.04	0.07	1	1.28	0.13	1	1.25
	conserved	0.95	0.13	1	1.23	0.17	1	1.16
	conserved	0.98	0.12	1	1.1	0.11	1	1.24
acrF		1.06	0.13	1	1.12	0.13	1	1.39
ybeL	conserved	0.94	0.13	1	1.04	0.09	1	0.88
lpdA	dihydrolipo	0.98	0.09	1	1.06	0.34	1	1
yadI	putative PT	0.54	0.07	1	0.97	0.13	1	1.01
yaeG	conserved	0.9	0.05	1	1.02	0.03	1	0.96
cutF	copper hon	1.03	0.12	1	1.13	0.23	1	0.83
		0.2	0.05	1	0.82	0.2	1	n/a
or protein		0.19	0.03	1	1.28	0.16	1	n/a
gntR	gluconate t	0.84	0.1	1	1.21	0.22	1	1.35
ructose-6-phosphate a		0.09	0.01	1	1.21	0.17	1	n/a
sthD	putative firr	0.81	0.16	1	1.26	0.29	1	1.07
rotein		0.13	0.12	1	1.23	0.2	1	n/a
se		0.27	0.05	1	1.09	0.13	n/a	n/a
stop following codon 1		0.14	0.02	1	0.87	0.09	1	n/a
	probable pl	0.66	0.12	1	1.17	0.12	1	1.31
thetical protein		0.22	0.08	1	1	0.23	1	n/a
yafJ	conserved	1.04	0.06	1	1.09	0.11	1	1.02
		1.03	0.1	1	1.12	0.11	1	1.03
hpaG	4-hydroxyp	0.99	0.09	1	0.77	0.12	1	0.75
	putative 2-l	1.11	0.16	1	0.8	0.16	1	0.75
		0.07	0.02	1	0.88	0.32	n/a	n/a
	conserved	1.03	0.27	1	1.06	0.26	0	0.77
phoH	PhoH prote	1.13	0.06	1	0.8	0.18	1	0.77
yceJ		1.04	0.16	1	0.92	0.34	1	0.73
	putative lip	1.06	0.05	1	0.84	0.12	1	0.79
rogenase		0.08	0.02	1	1.24	0.07	1	n/a
aroE	shikimate c	0.97	0.14	1	1.17	0.26	1	1.27
yceB	conserved	1.06	0.16	1	0.88	0.42	1	0.78
feoB	ferrous iron	0.97	0.07	1	1.4	0.15	1	1.22
ft; putative permease		0.06	0.03	1	1.22	0.13	1	n/a
	putative me	1.05	0.11	1	1.25	0.13	1	1.26
ydeW	putative req	1.04	0.09	1	1.31	0.15	1	1.42
able minor tail protein		0.24	0.12	1	1.01	0.37	1	n/a
ne protein		0.1	0.01	1	1.37	0.19	1	n/a
dnaB	replicative l	0.98	0.1	1	1.31	0.18	1	1.33
gltP	proton glut	0.93	0.07	1	1.27	0.18	1	1.22
ygbB	2C-methyl-	0.99	0.1	1	1.09	0.24	1	1.13
	putative me	1.11	0.14	1	0.99	0.13	1	0.85
	conserved	0.98	0.12	1	0.91	0.13	1	0.96
		0.13	0.01	1	0.8	0.2	1	n/a
live host specificity prot		0.09	0.02	1	0.9	0.18	n/a	n/a
	putative lip	1.04	0.03	1	0.98	0.19	1	1.02
aceA	isocitrate ly	0.98	0.08	1	1.23	0.07	1	1.31



ate component		0.1	0.03	1	1.22	0.22	1	n/a
nrfB	cytochrome	1.05	0.1	1	1.48	0.18	1	1.29
	araC family	1.06	0.17	1	1.4	0.19	1	1.23
yjeP	putative me	0.88	0.06	1	1.25	0.25	1	1.21
	putative ac	0.97	0.08	1	1	0.09	1	0.92
	conserved	0.91	0.14	1	1.04	0.26	1	0.95
nlpB	putative lipi	1.01	0.04	1	1.01	0.11	1	0.92
sppA	protease IV	0.95	0.04	0	1	0.26	0	0.93
bcdD	fimbrial sut	0.96	0.08	1	1.27	0.09	1	1.11
yjfl	putative me	0.78	0.11	1	1.24	0.44	1	1.13
ytfP	conserved	1.04	0.1	1	1.43	0.21	0	1.06
	putative MF	1.07	0.11	1	0.95	0.08	1	0.84
nuoK	NADH dehy	1.27	0.22	1	1.02	0.18	0	0.8
	conserved	1.15	0.16	1	0.98	0.1	1	0.91
	putative me	1.07	0.1	1	0.92	0.1	1	0.94
pduX	conserved	1.02	0.11	1	0.97	0.42	1	0.88
tdcD	propionate	0.88	0.12	1	1.09	0.11	1	1.25
nbrial chaperone		0.1	0.02	1	1.06	0.19	1	n/a
	glucans bic	1.12	0.05	1	0.86	0.11	1	0.72
subunit		0.11	0.01	1	1.08	0.14	1	n/a
prpR	propionate	0.96	0.08	1	1.21	0.21	1	0.93
	conserved	1	0.08	1	0.85	0.14	1	0.86
ydhC	putative int	0.96	0.06	1	0.81	0.12	1	0.81
sgaT	putative tra	0.93	0.07	1	1.18	0.21	1	1.08
ne protein		0.06	0.02	1	1.15	0.08	1	n/a
ubiX	putative de	0.88	0.05	1	0.98	0.17	1	0.87
pheS	phenylalan	0.94	0.03	1	0.81	0.1	1	0.76
	conserved	0.92	0.12	1	0.79	0.12	1	0.79
prfC	peptide cha	0.92	0.07	1	1.25	0.45	1	1.19
	putative AE	0.94	0.06	1	0.79	0.22	1	0.76
	putative inr	1.05	0.1	1	1.33	0.24	1	1.11
malk	maltose/m	0.99	0.08	1	1.32	0.27	1	1.18
rbsA	high affinity	1.06	0.12	1	1.42	0.13	1	1.4
yaeD	conserved	1.06	0.11	1	1	0.16	1	0.92
vsr	patch repai	0.98	0.12	1	0.94	0.19	1	0.75
zur	zinc uptake	0.99	0.08	1	1.24	0.16	1	1.32
astD	succinylglu	0.93	0.06	1	0.91	0.09	1	0.84
	putative ex	1.05	0.09	1	0.94	0.24	1	0.71
ydrogenase		0.07	0.02	1	0.9	0.12	1	n/a
	putative Hly	1.01	0.04	1	0.94	0.1	1	0.81
flgD	flagellar ho	1.09	0.04	1	0.91	0.08	1	0.76
rfaA	TDP-glucos	0.94	0.08	1	1.01	0.28	1	0.86
crl	curlin gene	1.03	0.04	1	1.12	0.11	1	1.05
	putative me	1.13	0.1	1	1.2	0.08	1	1.23
	putative tra	0.95	0.12	1	1.15	0.14	1	1.19
yhjM	probable ei	0.9	0.06	1	1.31	0.13	1	1.2
	conserved	1.06	0.11	1	1.19	0.15	1	1.22
menC	O-succinylk	1.02	0.07	1	1.04	3.19	1	0.85
glpC	anaerobic g	1.07	0.13	1	1.02	0.13	1	0.87
bcp	bacterioferi	1.16	0.17	1	1.12	0.49	0	1.03
ybbO	hypothetica	1.09	0.07	1	1.1	0.18	1	0.89
ilar to minor tail protein		0.54	0.06	1	1.02	0.13	1	n/a

		0.09	0.02	1	0.94	0.12	1	n/a
gltS	glutamate p	0.92	0.07	1	1.32	0.13	1	1.21
dppB	dipeptide tr	1.04	0.08	1	1.32	0.11	1	1.16
dppF	dipeptide tr	0.86	0.07	1	1.37	0.28	1	1.28
	putative ox	0.91	0.09	1	1.28	0.23	1	1.47
probable minor	tail protein	0.27	0.04	1	0.89	0.37	1	n/a
	conserved	0.55	0.04	1	0.99	0.1	n/a	0.85
	conserved	0.95	0.04	1	1.21	0.1	1	1.16
sopD	possible se	0.83	0.07	1	1.14	0.19	1	1.17
pyrB	aspartate c	0.91	0.08	1	1.32	0.21	1	1.19
metL	bifunctiona	0.92	0.07	1	1.37	0.21	1	1.38
kdpA	potassium-	0.86	0.06	1	0.91	0.13	1	0.81
	conserved	1.04	0.04	1	0.94	0.15	1	0.78
fimI		0.96	0.1	1	0.94	0.17	1	0.87
purL	phosphorib	1.02	0.07	1	1.01	0.07	1	1.01
rhaR	L-rhamnos	1.01	0.08	1	1.31	0.2	1	1.27
	conserved	0.95	0.03	1	0.97	0.15	n/a	0.78
	hypothetica	0.85	0.07	1	1.01	0.23	1	0.94
cadA	lysine deca	0.93	0.13	1	0.93	0.22	1	0.97
ompR	two-compo	0.87	0.11	1	1.28	0.2	1	1.28
sapD	peptide tra	0.95	0.07	1	0.74	0.19	1	0.75
leuD	3-isopropyl	0.86	0.05	1	1.11	0.24	1	1.06
adh	alcohol def	0.88	0.06	1	0.73	0.18	1	0.77
spaN	surface pre	0.86	0.08	1	1.01	0.24	1	1.18
eutA	putative etf	0.87	0.04	1	0.99	0.15	1	0.91
yiiD	putative ac	0.96	0.06	1	1.42	0.24	1	1.37
ybeF	lysR-family	0.94	0.09	1	1.06	0.19	1	0.84
rsD	putative req	0.93	0.07	1	1.28	0.34	1	1.33
yihT	putative alc	0.88	0.05	1	1.41	0.25	1	1.35
	hypothetica	1.05	0.07	1	1.31	0.32	1	1.27
marB	multiple an	0.98	0.1	1	0.74	0.14	1	0.73
rpmF	50S riboso	0.98	0.13	1	0.87	0.39	1	0.79
tpx	thiol peroxi	0.98	0.12	1	0.77	0.36	1	0.78
ppk	polyphosph	0.86	0.1	1	0.91	0.31	1	1.05
	conserved	0.85	0.12	1	1.2	0.2	1	1.26
waaB	lipopolysac	0.86	0.12	1	1.25	0.18	1	1.32
	hypothetica	1.35	0.2	1	1.11	0.24	1	0.9
thiG	thiamine bi	0.81	0.03	1	1.39	0.17	1	1.26
	putative se	0.92	0.09	1	1.4	0.15	1	1.31
	hypothetica	0.75	0.18	0	0.97	0.21	0	0.84
atpE	ATP synthase	0.93	0.1	1	1.47	0.37	1	1.16
pduF	propanedic	0.95	0.05	1	0.9	0.16	1	0.83
	putative an	0.77	0.05	1	1.21	0.25	1	1.08
	conserved	0.89	0.06	1	0.82	0.16	1	0.79
acnA	aconitate h	0.91	0.09	1	0.75	0.15	1	0.71
aroF	phospho-2-	0.98	0.03	1	0.9	0.28	1	0.94
ygcX	probable gl	0.85	0.11	1	1.09	0.12	1	1.06
phnT	probable A	0.92	0.05	1	1.07	0.27	1	0.8
rfaH	transcriptio	0.83	0.09	1	1.51	0.4	1	1.28
corA	magnesium	1.3	0.14	1	1.3	0.24	1	1.17
	hydridyl transferase	1.22	0.14	1	1.48	0.3	1	1.04
edd	6-phospho	0.89	0.05	1	0.84	0.12	1	0.86

rep	ATP-deper	0.83	0.11	1	1.44	0.31	1	1.3
yabK	putative AE	0.98	0.19	1	1.05	0.32	1	0.8
	putative me	1	0.16	1	0.68	0.09	1	0.67
hyaC	probable N	0.91	0.06	1	0.72	0.13	1	0.81
thyA	thymidylate	1.01	0.12	1	1.17	0.15	1	1.05
oppD	oligopeptid	1.02	0.05	1	0.74	0.17	1	0.68
	putative ex	0.86	0.03	1	1.42	0.27	1	1.18
	chloramph	0.84	0.05	1	1.37	0.28	1	1.17
	conserved	0.92	0.05	1	1.36	0.23	1	1.27
ilar to minor capsid prot		0.09	0.02	1	1.15	0.23	1 n/a	
	conserved	1.04	0.09	1	0.78	0.05	1	0.82
purU	formyltetral	0.88	0.06	1	0.88	0.13	1	0.76
	putative alc	1	0.04	1	0.71	0.09	1	0.68
prc	tail-specific	0.85	0.09	1	0.75	0.15	1	0.8
yebA	conserved	0.96	0.09	1	0.76	0.1	1	0.77
ybbN	thioredoxin	0.98	0.08	1	1.03	0.11	1	0.94
allC	allantoate a	0.97	0.07	1	1.05	0.2	1	0.93
	conserved	0.92	0.05	1	1.04	0.1	1	0.86
ybdF	conserved	1	0.22	1	0.9	0.16	1	0.85
rnk	regulator of	1.12	0.06	1	0.92	0.06	1	0.9
iation inhibitor		0.47	0.07	1	0.67	0.09	1 n/a	
	hypothetica	0.95	0.14	1	0.78	0.07	1	0.74
	putative rib	0.73	0.07	1	0.8	0.13	1	0.75
	putative gly	0.92	0.06	1	0.75	0.12	1	0.76
	putative mu	0.94	0.05	1	0.85	0.06 n/a		0.74
	putative ma	0.93	0.05	1	0.78	0.15	1	0.74
ybaR	copper-trar	0.92	0.09	1	1.23	0.4	1	0.76
	putative me	0.94	0.04	1	0.72	0.11	1	0.68
	putative hy	0.9	0.08	1	0.67	0.11	1	0.67
drogenase		0.07	0.01	1	1.14	0.11	1 n/a	
	conserved	0.9	0.04	1	1.07	0.19	1	0.88
	putative me	1.02	0.06	1	1.32	0.13	1	1.06
	hypothetica	0.88	0.08	1	1.28	0.24 n/a		1.15
yiaO		1.16	0.1	1	1.27	0.11	1	1.16
ttk	putative Te	0.89	0.05	1	1.35	0.26	1	1.37
		0.91	0.09	1	1.49	0.25	1	1.37
fucK	L-fucose	0.86	0.1	1	1.22	0.14	1	1.15
ar to late control gene ii		1.01	0.09	1	1.11	0.09	1	1.12
sbcD	exonucleas	0.9	0.07	1	1.01	0.21	1	0.87
	hypothetica	0.94	0.06	1	1.18	0.15	1	1.21
	putative ph	0.77	0.02	1	1.2	0.15	1	1.22
	putative lac	0.98	0.04	1	1.39	0.26	1	1.13
	hypothetica	0.94	0.08	1	1.51	0.22	1	1.44
	large repeti	0.94	0.03	1	1.07	0.18	1	1.06
citB	transcriptio	0.95	0.05	1	1.16	0.14 n/a		1.03
ispA	geranyltran	0.97	0.03	1	1.03	0.16	1	0.96
		0.95	0.07	1	1.29	0.22	1	1.2
		0.19	0.06	1	0.97	0.14	1 n/a	
yehS	conserved	1.01	0.09	1	0.98	0.19	1	0.9
	putative me	0.94	0.06	1	0.91	0.11	1	0.72
	putative ex	0.92	0.08	1	1.38	0.29	1	1.24
sugE	SugE prote	1.05	0.12	1	1.17	0.23	1	1.14

cybC	soluble cytr	0.95	0.08	1	1.12	0.21	1	1.11
rpIW	50S riboso	0.99	0.08	1	1.18	0.09	1	1.23
yjeE	conserved	1.01	0.11	1	1.18	0.11	1	1.06
rbfA	ribosome-t	0.54	0.04	1	1.16	0.47	1	1.2
rfaE	ADP-hepto	1.08	0.08	1	1.13	0.15	1	1.11
ordL	putative ox	0.98	0.1	1	1.16	0.1	1	1.21
	putative gly	0.93	0.04	1	1.15	0.13	1	1.08
slt	lytic mureir	0.94	0.04	1	1.24	0.22	1	1.01
sbmA	probable A	1.07	0.02	1	0.94	0.24	1	0.77
yeiR	conserved	1.01	0.02	1	0.87	0.2	1	0.89
rfbG	CDP-gluco	1.01	0.13	1	0.9	0.11	1	0.88
stcC	putative ou	1.03	0.06	1	0.97	0.07	1	0.87
ftsI2	penicillin-bi	0.89	0.04	1	0.77	0.11	1	0.87
		1.06	0.07	1	1.2	0.1 n/a		1.01
iciA	chromoson	0.92	0.09	1	1.16	0.22	1	1.22
ybgF	putative ex	0.89	0.08	1	0.97	0.11	1	0.85
rhIE	putative AT	0.9	0.04	1	0.87	0.15	1	0.75
dsbC	thiol:disulfic	1.02	0.05	1	1.1	0.11	1	1.18
flgG	flagellar ba	0.94	0.04	1	0.82	0.13	1	0.68
ybhB	conserved	0.93	0.08	1	1.03	0.15	1	0.86
ne protein		0.13	0.02	1	0.86	0.1	1 n/a	
	possible ex	1.08	0.1	1	1.14	0.15	1	1.21
mgtC	conserved	1.08	0.07	1	1.45	0.18	1	1.29
	putative mε	1.07	0.12	1	1.16	0.17	1	1.12
sirA	invasion re	1.04	0.08	1	0.78	0.09	1	0.77
gltB	glutamate s	0.89	0.06	1	1.26	0.17	1	1.14
	possible ca	1	0.05	1	1.16	0.17	1	1.33
rpoD	RNA polym	0.89	0.04	1	1.23	0.19	1	1.27
sscA	putative Ty	0.89	0.06	1	0.76	0.12	1	0.71
tion of the O-antigen (L		0.08	0.01	1	0.95	0.25	1 n/a	
or, lysR family		0.12	0.01	1	1.02	0.08	1 n/a	
cydA	cytochromeε	0.97	0.04	1	0.96	0.06	1	0.82
prgl	pathogenic	0.93	0.09	1	1.08	0.14	1	1.08
stpA	DNA-bindir	0.93	0.1	1	1.13	0.2	1	1.11
rpmG	50S riboso	0.92	0.07	1	1.48	0.25	1	1.43
rpsP	30S riboso	0.96	0.04	1	0.94	0.18	1	1.12
ybcJ	conserved	0.97	0.06	1	1.06	0.1	1	0.82
	putative tra	1	0.13	1	0.72	0.36	1	0.76
rotein		1.02	0.11	1	0.76	0.07	1 n/a	
yedF	conserved	1.11	0.11	1	0.81	0.08	1	0.85
	conserved	0.97	0.08	1	0.79	0.15	1	0.77
	putative mε	0.93	0.13	1	1.45	0.07	1	1.13
ppiC	peptidyl-prc	1.15	0.1	1	1.49	0.15	1	1.19
himD	integration	1.02	0.07	1	0.87	0.16	1	0.83
ne protein		0.2	0.01	1	1.11	0.17	1 n/a	
yiaQ	putative he	0.93	0.08	1	1.4	0.18	1	1.26
/dratase		0.08	0.01	1	0.83	0.11	1 n/a	
		0.13	0.02	1	0.8	0.07	1 n/a	
hifts		0.7	0.05	1	1.32	0.14	1	1.02
ecnB	entericidin	0.92	0.07	1	1.35	0.14	1	1.13
	conserved	1.02	0.09	1	1.31	0.32	1	1
thrL	thr operon	1.1	0.18	0	1.36	0.44	0	0.68

rotein		0.87	0.11	1	1.19	0.2	0	n/a
ide		1.08	0.2	0	1.33	0.58	0	n/a
ne protein		0.54	0.06	0	0.89	0.32	0	n/a
glgS	glycogen s	0.97	0.1	1	1.22	0.11	1	1.19
secG	protein-exp	0.95	0.03	1	1.1	0.12	1	1.13
ybjC	putative me	1.05	0.1	1	0.9	0.07	1	0.77
rotein		0.63	0.05	1	0.83	0.07	1	n/a
ive excisionase		0.12	0.02	1	0.82	0.09	1	n/a
	UDP-galac	1	0.14	1	0.89	0.1	1	0.89
rclease/phosphodiestera		0.05	0.02	1	0.8	0.12	n/a	n/a
		0.11	0.02	1	0.65	0.12	n/a	n/a
rotein		0.05	0	1	0.76	0.1	n/a	n/a
urface exclusion		0.05	0.02	1	0.79	0.14	n/a	n/a
ssembly		0.04	0.01	1	0.7	0.12	n/a	n/a
utative bacterial regulat		0.07	0.01	1	0.66	0.11	n/a	n/a
		0.91	0.03	1	0.79	0.09	n/a	0.74
riT nicking-unwinding		0.05	0.02	1	0.79	0.13	n/a	n/a
	possible su	0.88	0.08	1	1.11	0.15	1	0.97
		0.9	0.05	1	0.91	0.12	n/a	0.84
		0.98	0.06	1	0.83	0.12	n/a	0.82
		1	0.06	1	0.93	0.1	n/a	0.91
		1.06	0.07	1	0.9	0.1	n/a	0.6
		0.98	0.04	1	1.29	0.12	n/a	1.14
		0.95	0.06	1	1.15	0.13	n/a	1.07
		0.98	0.08	1	1.22	0.12	n/a	1.1
		0.09	0.03	1	0.89	0.08	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	hypothetica	1.64	0.71	0	n/a	n/a	n/a	1.28
	hypothetica	13.78	2.29	1	n/a	n/a	n/a	0.92
rfbS	paratose sy	4.81	1.02	1	n/a	n/a	n/a	0.94
	putative ph	3.22	0.22	1	n/a	n/a	n/a	1.01
ygbF	conserved	4.65	1.14	1	n/a	n/a	n/a	1.1
staA	putative fir	8.16	1.12	1	n/a	n/a	n/a	0.76
	hypothetica	14.04	5.57	1	n/a	n/a	n/a	0.98
	conserved	3.32	0.27	1	n/a	n/a	n/a	1.21
	probable pl	1.71	0.1	1	1.05	0.21	n/a	0.97
	probable m	4.41	0.28	1	n/a	n/a	n/a	0.99
staG	putative fir	8.99	1.12	1	n/a	n/a	n/a	0.87
	probable se	1.15	0.5	1	n/a	n/a	n/a	0.79
	hypothetica	2.98	0.22	1	n/a	n/a	n/a	1.26
nucD	putative lys	3.68	0.26	1	n/a	n/a	n/a	1.12
tnpA	transposas	1.52	0.83	1	1.01	0.08	n/a	0.75
	hypothetica	3.43	1.06	1	n/a	n/a	n/a	1.4
	hypothetica	7.69	1.77	1	n/a	n/a	n/a	0.65
	hypothetica	9.24	0.81	1	n/a	n/a	n/a	0.69
	hypothetica	4.25	1.21	1	n/a	n/a	n/a	0.94
	putative ex	0.99	0.04	1	1.06	0.12	n/a	0.99
		1.15	0.14	1	1.34	0.26	n/a	1.23
		1.26	0.09	1	1.22	0.17	n/a	1.13
	conserved	2.54	0.21	1	n/a	n/a	n/a	1
	integrase	7.47	0.66	1	n/a	n/a	n/a	0.98
pilU	prepilin pe	17.44	3.32	1	n/a	n/a	n/a	0.89

	hypothetica	17.82	4.28	1	n/a	n/a	n/a	0.98
	DEAD-box	22.79	3.26	1	n/a	n/a	n/a	1.09
	putative me	4.05	0.31	1	n/a	n/a	n/a	1.01
	hypothetica	3.87	0.35	1	n/a	n/a	n/a	1.2
	hypothetica	22.19	2.91	1	n/a	n/a	n/a	1
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
kdpD	sensor prot	0.95	0.06	1	0.92	0.12	1	0.91
	possible ra	0.89	0.08	1	1.37	0.17	1	1.55
pstC	phosphate	1.01	0.12	1	1.45	0.16	1	1.32
	hypothetica	1.07	0.11	1	1.38	0.08	1	1.41
hemM	outer mem	0.98	0.08	1	0.86	0.22	1	0.89
leuC	3-isopropyl	0.95	0.05	1	1.04	0.24	1	1.13
	putative tra	1.05	0.08	1	1.04	0.13	1	1.19
yabB	conserved	1.14	0.1	1	1.01	0.25	1	1.05
aroP	aromatic ar	0.98	0.13	1	1.17	0.21	1	1
irone		0.15	0.04	1	1	0.15	1	n/a
ine protein		0.2	0.04	1	1.05	0.25	1	n/a
yaeP	conserved	1.12	0.15	1	1.15	0.29	0	0.94
	putative AT	1.03	0.12	1	1.09	0.03	1	1.43
	conserved	1.07	0.14	1	1.03	0.11	1	1.1
rlpB	rare lipoprc	1.02	0.16	1	0.94	0.15	1	1.04
yleB	putative mc	1.03	0.12	1	0.79	0.19	1	0.84
potE	putrescine-	0.94	0.11	1	0.94	0.18	1	0.82
fliT	flagellar pr	1.07	0.08	1	0.86	0.16	1	0.84
	conserved	1	0.11	1	0.68	0.06	1	0.89
wcaA		0.95	0.12	1	0.88	0.2	1	0.94
	putative ca	1.3	0.12	1	1.07	0.13	1	1.25
glucitol/sorbitol-specific		0.08	0.02	1	1.01	0.13	1	n/a
rotein		0.21	0.06	1	1.09	0.25	1	n/a
gabT	4-aminobul	0.98	0.05	1	1.08	0.19	1	1.21
	putative se	0.93	0.09	1	1.16	0.18	1	1.09
n A subunit		0.45	0.12	1	1.11	0.27	1	n/a
		0.08	0.02	1	0.99	0.09	1	n/a
pepN	aminopepti	1.09	0.07	1	0.85	0.2	1	0.83
	conserved	1.17	0.16	1	0.85	0.15	1	0.72
yheO	conserved	1.02	0.19	1	1.19	0.33	1	1.44
	conserved	1	0.15	1	0.88	0.19	1	0.85
	putative me	1.02	0.1	1	0.76	0.09	1	0.77
rpIO	50S ribosoi	1.11	0.14	1	1.05	0.14	1	1.37
yhfK		0.99	0.11	1	1.1	0.09	1	1.38
pckA	phosphoen	1.14	0.2	1	1.13	0.2	1	1.38
	putative re	0.91	0.16	1	0.85	0.31	1	1.04
	putative me	1.06	0.12	1	0.8	0.51	1	0.77
	putative se	1	0.08	1	0.82	0.11	1	0.78
	ABC transp	0.96	0.08	1	0.81	0.16	1	0.8
gntK	putative glu	0.97	0.11	1	1.2	0.15	1	1.24
		0.09	0.02	1	0.82	0.21	1	n/a

ate protein		0.07	0.03	1	1.32	0.07	1	n/a
	hypothetica	1.01	0.09	1	1.35	0.14	1	1.33
menA	menaquino	1.05	0.09	1	1.33	0.17	1	1.2
trmA	tRNA (urac	1.01	0.11	1	1.1	0.16	1	1.33
	possible se	1.11	0.12	1	1.03	0.09	1	1.27
ecnR	transcriptio	0.95	0.13	1	1.05	0.16	1	1.33
fadL	long-chain	1.04	0.06	1	1.02	0.24	1	1.06
artP	arginine tra	1	0.17	1	1.03	0.27	1	0.82
maeB	NADP-dep	1.04	0.13	1	0.97	0.18	1	1.01
	putative ex	0.95	0.15	1	0.88	0.11	1	1.03
		1.04	0.12	1	0.87	0.09	1	0.9
	putative me	1	0.19	1	1.3	0.22	1	1.18
		1.03	0.16	1	1.21	0.13	1	1.37
rotein		0.8	0.15	0	1.51	0.72	0	n/a
pcm	L-isoaspart	1.01	0.15	1	1.13	0.13	1	1.18
pyrG	CTP synth	1.02	0.09	1	1.15	0.09	1	1.2
		0.28	0.19	1	1.13	0.37	0	n/a
		0.07	0.03	1	0.83	0.19	n/a	n/a
(se)		0.11	0.03	1	0.81	0.11	1	n/a
nadE	NH3-deper	1.06	0.06	1	0.79	0.09	1	0.83
	putative Te	1.2	0.13	1	0.72	0.12	1	0.8
yodD	conserved	0.98	0.15	0	1.08	0.41	0	0.77
A-binding domain-conti		0.07	0.02	1	1.17	0.23	1	n/a
glpB	anaerobic (	1	0.12	1	1.04	0.22	1	0.91
	conserved	0.91	0.1	1	1.2	0.2	1	1.3
rotein		0.11	0.02	1	1.09	0.17	1	n/a
ne protein		0.93	0.21	1	0.99	0.12	1	1.2
	conserved	1.06	0.1	1	0.85	0.15	1	0.78
	putative nit	1.07	0.09	1	0.71	0.12	1	0.83
	conserved	1.06	0.12	1	0.71	0.1	1	0.73
tus	DNA replic	1.05	0.23	1	0.82	0.25	1	0.77
	putative me	1.02	0.11	1	0.84	0.21	1	0.74
yceE	putative me	1.03	0.09	1	0.82	0.06	1	0.75
sitD	Iron transp	0.97	0.04	1	1.09	0.57	1	1.2
nth	endonuclea	1.16	0.11	1	0.69	0.14	1	0.75
yedA	putative me	1.02	0.06	1	0.8	0.09	1	0.92
hisB	imidazolegl	1.06	0.07	1	0.86	0.05	1	0.99
topB	DNA topois	1.01	0.11	1	0.85	0.16	1	0.78
slyA	transcriptio	1.1	0.19	1	0.81	0.32	1	0.88
ydhD	conserved	1.03	0.18	1	0.94	0.25	1	0.93
	conserved	1.07	0.16	1	0.72	0.1	1	0.74
ssaN	putative typ	1.08	0.23	1	0.67	0.02	1	0.75
mioC	MioC prote	1.11	0.24	1	1.32	0.1	1	1.46
	putative PT	1.09	0.27	1	1.35	0.24	1	1.34
pdxJ	putative py	1.02	0.11	1	1.03	0.19	1	1.11
phoR	phosphate	1.04	0.13	1	0.91	0.11	1	0.93
aceB	malate syn	0.97	0.2	1	1.09	0.63	1	1.3
caiE	carnitine o	1.14	0.11	1	1.08	0.24	1	1.08
	putative hy	0.95	0.08	1	0.85	0.2	1	0.83
		1.07	0.14	1	0.81	0.1	1	0.86
fliR	flagellar bic	1.01	0.07	1	0.85	0.15	1	0.85
	putative ox	1.07	0.09	1	0.79	0.08	1	0.73

	putative de	1.17	0.04	1	0.73	0.09	1	0.69
div	Div protein	1.06	0.08	1	0.96	0.15	1	0.92
	putative ox	1.04	0.12	1	0.97	0.11	1	1.07
ilar to antiterminator Q		0.13	0.04	1	0.94	0.06	1	n/a
	conserved	1.03	0.09	1	1.19	0.11	1	1.47
ftsE	cell divisor	1.09	0.11	1	1.18	0.1	1	1.27
gph	phosphogly	0.97	0.13	1	1.21	0.23	1	1.24
	possible ou	0.98	0.1	1	1.16	0.56	1	1.04
		1.01	0.16	1	0.76	0.21	1	0.87
	conserved	1.14	0.16	1	0.94	0.17	1	0.94
gtrA	bactoprenc	1.27	0.25	1	1.13	0.17	1	0.81
ppa	inorganic p	0.95	0.15	1	1.16	0.23	1	1.19
cstA	probable c	1.01	0.1	1	1.04	0.1	1	1.07
	conserved	0.97	0.14	1	1.12	0.19	1	1.15
		0.96	0.13	1	1.17	0.06	1	1.23
	conserved	0.95	0.07	1	1.41	0.25	1	1.17
yrfC	putative m	0.94	0.09	1	1.27	0.12	1	1.2
pta	phosphate	0.99	0.07	1	0.94	0.09	1	0.99
csiE	stationary p	1.03	0.11	1	1.06	0.04	1	0.98
fdrA	FdrA protei	0.94	0.04	1	0.99	0.1	1	0.88
allD	ureidoglycc	0.96	0.1	1	1.01	0.15	1	0.95
mutS	DNA mism	0.97	0.08	1	1.04	0.19	1	1.12
cpxP	extracytopl	1.03	0.09	1	1.37	0.07	1	1.35
gltK	glutamate/	0.99	0.07	1	1.06	0.09	1	0.82
fms	polypeptide	0.99	0.09	1	1.11	0.09	1	1.28
lepB	signal pept	1.02	0.08	1	1.04	0.09	1	1.26
hisI	phosphorib	1.07	0.08	1	0.9	0.08	1	0.89
typA	GTP-bindir	1	0.1	1	1.26	0.15	1	1.41
potH	putrescine	0.97	0.12	1	0.93	0.11	1	0.9
mscL	large-condi	1	0.11	1	1.12	0.17	1	1.29
of flagellar	gene expre	0.27	0.06	1	1.17	0.3	0	n/a
flgL	flagellar ho	1.11	0.18	1	0.69	0.11	1	0.76
era	GTP-bindir	0.92	0.1	1	1.02	0.08	1	1.17
dctA	C4-dicarbo	1.04	0.08	1	1.28	0.27	1	1.3
glyA	serine hydr	0.98	0.03	1	0.98	0.08	1	1.01
putA	proline deh	1.03	0.1	1	0.83	0.13	n/a	0.79
manA	mannose-6	0.96	0.09	1	0.69	0.06	1	0.76
	conserved	1	0.08	1	0.95	0.08	1	0.84
ybiR	putative m	1.04	0.09	1	0.89	0.07	1	0.79
	hypothetica	0.94	0.19	0	1.03	0.56	0	0.82
	hypothetica	1.14	0.09	1	1.17	0.34	0	0.99
	conserved	1.12	0.15	1	0.93	0.15	1	0.95
dcuS	two-compo	0.96	0.09	1	1.14	0.31	1	1.25
yecA	conserved	1.12	0.16	1	0.81	0.11	1	0.89
mppA	periplasmic	0.98	0.13	1	0.79	0.18	1	0.77
pspC	phage shor	1.02	0.13	1	0.69	0.09	1	0.79
	putative typ	0.87	0.17	1	1.06	0.13	1	1.34
fkpB	probable Fl	0.91	0.12	1	1.02	0.1	1	1.06
	putative lip	0.94	0.11	1	0.72	0.07	1	0.76
	conserved	1.05	0.32	0	1.34	0.43	0	0.82
yihQ	putative gly	1.01	0.16	1	1.38	0.22	1	1.48
livJ		0.97	0.06	1	1.29	0.26	1	1.2



	hypothetica	0.92	0.08	0	1.23	0.19	0	0.89
		0.85	0.06	1	1.02	0.06	n/a	0.72
ptsJ	putative tra	0.88	0.08	1	1.05	0.13	1	0.95
yecE	conserved	0.95	0.1	1	0.79	0.06	1	0.91
	putative typ	0.93	0.09	1	1.22	0.15	1	1.26
yqeF	probable ar	0.98	0.1	1	1.16	0.18	1	1.09
rpsU	30S riboso	0.97	0.11	1	1.23	0.14	1	1.25
iagB	cell invasio	1.01	0.08	1	1.05	0.2	1	1.18
udp	uridine pho	1.02	0.14	1	1.27	0.2	1	1.29
dnaA	chromosom	0.96	0.1	1	1.36	0.26	1	1.51
rpiA	ribose 5-ph	1.07	0.15	1	1.05	0.11	1	1.16
rffM	probable U	0.92	0.08	1	1.36	0.19	1	1.25
	conserved	0.98	0.11	1	1.07	0.12	1	1.3
rplL	50S riboso	1.01	0.12	1	1.38	0.25	1	1.6
fimA	type-1 fimb	0.81	0.14	1	0.93	0.14	1	0.85
cheY	chemotaxis	0.93	0.15	1	0.74	0.12	1	0.82
hemN	oxygen-ind	0.94	0.17	1	1.41	0.21	1	1.44
lysR	transcriptio	0.92	0.09	1	1.07	0.1	1	1.17
	hypothetica	0.9	0.04	1	1.45	0.31	1	1.42
dapF	diaminopirr	0.99	0.07	1	1.31	0.2	1	1.26
yifB		1.04	0.1	1	1.39	0.08	1	1.14
flagellin, filament struct		0.49	0.05	1	0.9	0.12	n/a	0.82
cysH	3'-phospho	0.84	0.07	1	0.98	0.17	1	1.19
adhP	alcohol def	0.92	0.12	1	0.71	0.08	1	0.79
	putative tra	0.99	0.07	1	0.7	0.07	1	0.85
	putative ex	1.01	0.1	1	0.74	0.1	1	0.75
	putative tra	1.08	0.09	1	0.67	2.05	1	0.86
	putative alc	1.03	0.11	1	0.71	0.06	1	0.75
	putative req	1.01	0.11	1	0.75	0.08	1	0.81
asnS	asparaginy	0.99	0.14	1	0.83	0.07	1	0.85
fepC	ferric enter	0.93	0.1	1	0.97	0.08	1	0.91
stbB	fimbrial cha	0.99	0.11	1	0.91	0.11	1	0.99
	possible m	1.05	0.12	1	0.77	0.59	1	0.72
	putative NA	0.97	0.17	1	0.71	0.06	1	0.78
rrmA	rRNA guan	1.01	0.1	1	0.78	0.2	1	0.84
ductase		0.18	0.03	1	0.76	0.11	1	n/a
eda		1.11	0.09	1	0.83	0.15	1	0.75
yecI	ferritin-like	0.97	0.03	1	0.86	0.14	1	0.95
allA		1.06	0.16	1	0.95	0.12	1	0.86
cysS	cysteinyl-tF	0.98	0.07	1	0.92	0.13	1	0.85
r isomerases		0.12	0.02	1	0.94	0.1	1	n/a
yajF	hypothetica	1.01	0.09	1	1.04	0.16	1	0.89
hyb0	hydrogena	1.06	0.13	1	1.12	0.11	1	1.25
mltB	membrane	1	0.1	1	1.01	0.12	1	1.07
	hypothetica	1.05	0.12	1	1.27	0.08	1	1.3
	conserved	0.93	0.1	1	1.07	0.23	1	1.22
pgtE	outer mem	1.08	0.15	1	0.88	0.09	1	0.91
yicL	putative me	1.01	0.06	1	1.27	0.13	1	1.22
argA	N-acetylglu	0.92	0.09	1	1.06	0.06	1	1.25
	hypothetica	0.96	0.19	1	1.05	0.19	1	1.22
	conserved	1.01	0.16	1	1.08	0.07	1	1.16
tesB	acyl-CoA th	1.06	0.15	1	1.04	0.11	1	0.92

		0.94	0.07	1	1.01	0.16	1	1.02
coaD	phosphopa	0.87	0.04	1	1.39	0.25	1	1.25
exo	5'-3' exonu	0.97	0.06	1	1.14	0.11	1	1.15
kduL	5-keto-4-de	1.05	0.06	1	1.19	0.14	1	1.18
ite	dehydrogenase	0.08	0.01	1	1.14	0.06	1	n/a
	hypothetica	0.95	0.12	1	1.2	0.1	1	1.29
recA	RecA prote	0.99	0.07	1	1.09	0.16	1	1.09
wzb	putative pr	1.05	0.22	1	0.87	0.54	1	1.03
in of phage		0.74	0.05	1	0.83	0.07	1	0.86
waaC	lipopolysac	1.04	0.05	1	1.31	0.61	1	1.35
rpsS	30S ribosom	1	0.06	0	1.2	0.28	0	1.23
	conserved	0.99	0.15	1	1.06	0.08	1	1.19
	possible ca	1.04	0.17	1	1.1	0.12	1	1.15
	putative PT	1	0.1	1	1.14	0.12	1	1.23
	putative pir	1.04	0.1	1	0.84	0.1	1	0.87
	putative me	1.02	0.05	1	1.06	0.11	1	0.89
deoD	purine nucl	0.93	0.03	1	1.07	0.14	1	1.09
ump		0.11	0.02	1	1.05	0.16	1	n/a
	putative ex	0.9	0.1	0	0.96	0.17	0	0.63
yjeH	putative pe	0.96	0.08	1	1.09	0.15	1	1.06
	putative me	1.04	0.06	1	1.13	0.09	1	1.03
sdaC	putative L-s	0.92	0.05	1	0.89	0.07	1	0.87
rotein		0.09	0.02	1	0.81	0.12	1	n/a
stcB	putative fir	1.04	0.07	1	0.83	0.05	1	0.94
	putative n-f	1.11	0.05	1	0.9	0.12	1	0.81
sseC	putative pa	0.91	0.07	1	0.74	0.11	1	0.82
	conserved	0.98	0.1	1	0.81	0.07	1	0.8
or, lysR family		0.14	0.26	1	0.9	0.36	1	n/a
ybiP	putative me	1.05	0.11	1	0.91	0.09	1	0.81
xthA	exodeoxyri	0.99	0.08	1	0.75	0.06	1	0.82
garD	D-galactara	1.02	0.1	1	1.15	0.1	1	1.1
	putative inr	1.01	0.1	1	0.95	0.11	1	0.89
	possible m	0.97	0.09	1	1.14	0.08	1	1.21
fliB		0.99	0.1	1	0.78	0.1	1	0.89
	possible dr	1.05	0.12	1	1.02	0.1	1	1.22
	possible Af	0.97	0.12	1	1.09	0.08	1	1.13
	putative ex	1	0.1	1	0.82	0.1	1	0.81
	AraC-famil	1.03	0.09	1	1.05	0.14	1	1.16
fidL	putative ex	1	0.03	1	1.46	0.27	1	1.43
	conserved	0.99	0.1	1	1.24	0.11	1	1.34
ssaG	putative pa	0.93	0.26	0	1.1	0.16	0	0.79
hpaX	putative 4-f	0.98	0.06	1	0.85	0.18	1	0.76
modF	putative mc	1.02	0.08	1	0.93	0.07	1	0.74
	putative me	1.16	0.06	1	0.92	0.05	1	0.87
hscA	chaperone	0.99	0.06	1	1.11	0.03	1	0.99
yffB	conserved	1.15	0.05	1	0.94	0.09	1	0.91
ybaM	conserved	1.1	0.08	1	0.93	0.09	1	0.85
	putative me	1.19	0.08	1	0.66	0.07	1	0.62
	conserved	0.94	0.08	1	1.26	0.12	1	1.34
	conserved	1.01	0.15	1	1.06	0.07	1	1.15
glpE	conserved	0.98	0.12	1	1.14	0.07	1	1.29
yhhK	conserved	1.01	0.08	1	1.22	0.15	1	1.34

	putative Ge	1.13	0.16	1	1.07	0.18	1	1.34
ne protein		0.21	0.05	1	1.23	0.18	1 n/a	
	hypothetica	1.11	0.12	1	0.98	0.13	1	1.24
yiaH		1.12	0.47	0	1.27	0.53	0	0.68
ine protein		0.14	0.02	1	1.18	0.07	1 n/a	
yafA	conserved	1.01	0.06	1	1.08	0.08	1	0.8
thrC	threonine s	1.1	0.1	1	1.12	0.07	1	0.94
asr	putative se	1.06	0.08	1	0.66	0.07	1	0.76
	conserved	1.05	0.09	1	0.71	0.04	n/a	0.72
	putative tra	0.98	0.06	1	1.09	0.06	1	1.02
dapB	dihydrodipi	0.96	0.03	1	1.12	0.12	1	0.97
	putative tra	0.99	0.11	1	1.01	0.09	1	1.01
	putative ex	1.06	0.08	1	1.05	0.06	1	1.11
	conserved	1.08	0.17	0	1.13	0.4	0	0.95
rotein		0.37	0.05	1	0.95	0.17	1 n/a	
	putative ac	1.05	0.06	1	1.1	0.1	1	1.09
	putative me	0.97	0.11	1	1.12	0.1	1	1.24
		0.1	0.04	1	0.86	0.1	1 n/a	
	conserved	1.01	0.07	1	0.87	0.1	1	0.89
tive minor tail protein		0.15	0.14	1	0.81	0.06	1 n/a	
pnuC	pnuC prote	1.01	0.04	1	0.88	0.09	1	0.75
in B		0.06	0.01	1	0.7	0.05	n/a	n/a
sssembly abd aggregate		0.03	0.01	1	0.65	0.11	n/a	n/a
eshifts		0.22	0.06	1	0.88	0.08	n/a	n/a
mbrial subunit		0.04	0.01	1	0.69	0.06	n/a	n/a
riae; usher protein		0.03	0	1	0.68	0.07	n/a	n/a
ine protein		0.06	0.01	1	0.63	0.06	n/a	n/a
fic DNA methylase		0.08	0.02	1	0.69	0.06	n/a	n/a
tar	methyl-acc	1.06	0.09	1	0.78	0.07	1	0.78
		0.98	0.05	1	1.1	0.08	n/a	1.03
		0.89	0.05	1	1.1	0.16	n/a	1.09
		1.01	0.07	1	1.03	0.09	n/a	0.99
	Rhs-family	0.98	0.1	1	1.03	0.12	1	0.78
		1.06	0.11	1	0.86	0.08	n/a	0.85
		1.01	0.12	1	0.82	0.06	n/a	0.93
		0.08	0.02	1	0.78	0.09	n/a	n/a
		0.12	0.03	1	0.78	0.05	n/a	n/a
		1.03	0.09	1	1.12	0.09	n/a	1.23
		n/a	n/a	n/a	n/a	n/a	n/a	
rffH	putative ba	8.64	1.01	1 n/a	n/a	n/a	n/a	0.83
	glucose-1- $\mu$	2.65	3.98	1	1.39	0.15	n/a	1.15
	possible lip	5.32	0.86	1 n/a	n/a	n/a	n/a	1.22
	putative DN	6.93	1.23	1 n/a	n/a	n/a	n/a	1.09
	hypothetica	9.42	1.37	1 n/a	n/a	n/a	n/a	1.23
	putative pe	1.18	0.1	1	0.71	0.06	n/a	0.68
	putative ba	3.38	0.56	1 n/a	n/a	n/a	n/a	0.86
	putative ex	7.08	1.4	1 n/a	n/a	n/a	n/a	0.86
		1.7	0.1	1	1.05	0.11	n/a	0.89
stgA	probable fir	5.57	1.33	1 n/a	n/a	n/a	n/a	1.31
	hypothetica	4.99	0.78	1 n/a	n/a	n/a	n/a	0.74
	hypothetica	8.02	2.57	1 n/a	n/a	n/a	n/a	0.65
	putative ex	7.98	1.09	1 n/a	n/a	n/a	n/a	0.86

	putative ex	5.6	0.81	1	n/a	n/a	n/a	0.99
		5.93	1.96	1	n/a	n/a	n/a	1.08
staE	putative firr	10.61	2.26	1	n/a	n/a	n/a	0.89
	hypothetica	4.08	1.1	1	n/a	n/a	n/a	0.77
	probable se	1.49	0.26	1	n/a	n/a	n/a	0.85
	hypothetica	8.26	1.43	1	n/a	n/a	n/a	1.14
	hypothetica	7.3	2.13	1	n/a	n/a	n/a	1.29
	putative lipi	4.64	0.8	1	n/a	n/a	n/a	1.17
	hypothetica	7.67	1.72	1	n/a	n/a	n/a	1.02
	hypothetica	22.34	2.68	1	n/a	n/a	n/a	1.06
	hypothetica	38.23	7.89	1	n/a	n/a	n/a	1.04
	hypothetica	12.66	1.13	1	n/a	n/a	n/a	1.15
	phage pola	10.81	2.45	1	n/a	n/a	n/a	1.02
	hypothetica	9.37	1.55	1	n/a	n/a	n/a	1.13
	putative me	11.42	2.04	1	n/a	n/a	n/a	0.98
	hypothetica	14.36	3.53	1	n/a	n/a	n/a	1.14
pilV	prepilin	14.1	4.13	1	n/a	n/a	n/a	1.02
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
		n/a	n/a	n/a	n/a	n/a	n/a	n/a
spak	secretory p	1.03	0.09	1	1.23	0.33	1	1.23
adk	adenylate k	0.98	0.1	1	1.01	0.13	1	0.87
cbiH	precorrin-3	0.78	0.14	1	0.83	0.09	1	0.86
uhpC	regulatory p	1	0.14	1	1.49	0.26	1	1.28
citE2	citrate lyase	1	0.15	1	1.12	0.23	1	1.11
ksgA	dimethylad	1.05	0.16	1	1.24	0.23	1	1.21
dnaE	DNA polym	0.99	0.12	1	1.04	0.15	1	0.98
nlp	Ner-like re	1.08	0.14	1	1.3	0.37	0	1.08
rpsI	30S riboso	0.94	0.12	1	1.08	0.18	1	1.28
	conserved	1.01	0.08	1	1.24	0.31	1	1.3
mrdB	rod shape-	1.08	0.06	1	0.88	0.06	1	0.87
gltL	glutamate/	0.93	0.09	1	1.04	0.28	1	0.9
gcd	glucose de	0.95	0.06	1	1.07	0.09	1	1.06
ligT	2'-5' RNA li	0.93	0.05	1	1.18	0.14	1	0.95
yaet	outer mem	0.93	0.08	1	1.07	0.13	1	1
	putative D-	0.97	0.04	1	0.83	0.18	1	0.74
	putative se	0.93	0.13	1	0.82	0.2	1	0.77
	transcriptional repressor (	0.13	0.03	1	1.29	0.15	1	n/a
ftsX	cell divisio	0.97	0.04	1	1.18	0.35	1	1.26
	conserved	1.03	0.15	1	1.34	0.26	1	1.25
	putative dru	0.85	0.22	1	1.19	0.16	1	0.96
	possible ac	0.97	0.09	1	1.06	0.16	1	1.03
	acyltransferase	0.09	0.03	1	1.05	0.21	1	n/a
	conserved	0.99	0.07	1	0.83	0.18	1	0.84
	ar to gpN, major capsid	1.16	0.19	1	1.07	0.11	1	1.19
	rotein	0.2	0.03	1	1.04	0.27	1	n/a
		0.52	0.05	1	1.1	0.3	0	n/a
	putative me	0.95	0.07	1	1.03	0.31	1	0.84
wrbA	trp repress	1	0.07	1	0.74	0.16	1	0.7

	conserved	0.91	0.07	1	1.04	0.41	1	0.88
mobA	molybdopterin	1	0.08	1	1.25	0.11	1	1.35
hpcD	5-carboxymethyl	0.85	0.06	1	1.01	0.22	0	0.82
	putative methyltransferase	1.08	0.12	1	0.71	0.08	1	0.71
acpP	acyl carrier protein	0.97	0.16	1	0.95	0.27	0	0.76
mfd	transcription factor	0.96	0.03	1	0.85	0.22	1	0.75
glgB	1,4-alpha-D-glucanase	0.95	0.05	1	1.26	0.13	1	1.36
mdoG	periplasmic chaperone	1.05	0.14	1	0.84	0.07	1	0.84
yrfF	putative methyltransferase	0.97	0.12	1	1.22	0.24	1	1.26
ropein		0.14	0.06	1	1.16	0.11	1 n/a	
		0.88	0.19	1	0.88	0.17	1	0.9
		0.96	0.2	1	1.25	0.34	1	1.59
glpF	glycerol uptake	0.97	0.15	1	1.17	0.37	1	1.24
ropein		0.14	0.04	1	1.29	0.1	1 n/a	
ε protein		0.17	0.02	1	1.19	0.06	1 n/a	
	putative xanthine oxidase	0.96	0.1	1	1.12	0.15	1	1.03
dmsA		1	0.06	1	1.16	0.11	1	1.3
ropein		0.11	0.02	1	1.07	0.15	1 n/a	
artQ	arginine transferase	0.98	0.08	1	0.93	0.08	1	0.75
gltX	glutamyl-tRNA synthetase	0.89	0.07	1	0.89	0.07	1	1
diverse minor tail protein		0.36	0.04	0	1.21	0.38	0 n/a	
	conserved	0.9	0.05	1	0.9	0.1	1	0.83
		0.94	0.07	1	0.75	0.07	1	0.88
ropein		0.1	0.03	1	1.18	0.17	1 n/a	
enzymase I		0.16	0.03	1	1.23	0.15	1 n/a	
proP	ProP	0.99	0.16	1	1.19	0.14	1	1.18
efp	elongation factor	1.03	0.11	1	1.42	0.21	1	1.31
mepA	penicillin-inactivating enzyme	0.99	0.17	1	0.87	0.08	1	0.97
yfeN	conserved	1.17	0.17	1	0.94	0.29	1	0.95
	putative exonuclease	1.03	0.14	1	0.91	0.19	1	1
enzymase protein		0.99	0.15	0	1.12	0.51	n/a	1.01
iagA	invasion protein	0.98	0.13	1	1.06	0.18	1	1.27
artJ	probable aminotransferase	1.04	0.14	1	1.11	0.08	1	1.21
priB	primosome assembly factor	1.17	0.23	1	1.09	0.32	0	1.21
napA	probable nucleoside diphosphate kinase	1.07	0.08	1	1	0.46	1	0.95
transport protein		0.87	0.05	1	1.09	0.08	1	1.13
	conserved	1.08	0.09	1	1	0.29	1	0.99
nuoC	NADH dehydrogenase	1.03	0.07	1	0.99	0.11	1	1.04
transcriptional regulators,		0.11	0.03	1	1.33	0.85	1 n/a	
fliY	cysteine-binding protein	1.05	0.04	1	0.8	0.11	1	0.87
bfr	bacterioferroxidase	1.03	0.06	1	0.94	0.12	1	1.29
yccF	putative methyltransferase	1	0.1	1	0.96	0.21	1	0.86
potD	spermidine acetyltransferase	0.99	0.05	1	0.74	0.06	1	0.87
	putative ethanolamine N-methyltransferase	1.11	0.21	1	1	0.09	1	1
potB	spermidine acetyltransferase	1	0.19	1	0.86	0.18	1	0.8
	putative oxidoreductase	1.03	0.09	1	0.66	0.06	1	0.84
yjfJ		0.84	0.13	1	1.12	0.18	1	1.21
ytfJ	putative exonuclease	1.1	0.14	1	1.12	0.14	1	1.09
		0.07	0.02	1	1.22	0.17	1 n/a	
	conserved	1.21	0.1	1	0.76	0.08	1	0.81
	putative methyltransferase	0.92	0.11	1	0.72	0.14	1	0.88
hns	DNA-binding protein	1.12	0.12	1	0.98	0.8	1	0.87

flgA	flagellar ba	1.09	0.1	1	0.85	0.13	1	0.81
	abequosyltransferase	0.34	0.05	1	0.86	0.1	1	n/a
ilvB	acetohydro	0.96	0.06	1	1.48	0.11	1	1.31
atpC	ATP synthase	0.87	0.04	1	1.3	0.18	0	1.29
nadB	L-aspartate	0.84	0.06	1	1.02	0.13	1	1.12
yaeB	conserved	0.82	0.11	1	1.04	0.11	1	0.97
djlA	DnaJ-like p	0.96	0.12	1	1.15	0.14	1	1.07
yfcA	putative me	0.97	0.08	1	0.9	0.11	1	0.95
	conserved	0.99	0.08	1	0.91	0.13	1	0.82
	conserved	1.11	0.17	1	0.86	0.15	1	0.87
ompF	outer mem	1.14	0.13	1	1.08	0.28	1	0.95
livM	high-affinity	1.06	0.18	1	1.14	0.07	1	1.12
ssaL	putative se	0.98	1.9	1	0.72	0.26	1	0.83
napH	ferredoxin-	1.22	0.12	1	1.32	0.26	0	0.88
	conserved	0.54	0.06	1	0.91	0.16	n/a	1.08
	conserved	1.01	0.07	1	1.15	0.16	1	1.18
bisC	biotin sulfo	0.91	0.11	1	1.22	0.14	1	1.34
		0.82	0.09	1	1.08	0.18	1	1.39
	conserved	0.99	0.09	1	1.04	0.18	1	1.38
yfeD	conserved	1.12	0.29	0	1.19	0.23	1	1.1
	putative me	1.03	0.09	1	1.31	0.36	n/a	1.05
sfbA	lipoprotein	1.03	0.2	0	1.61	0.52	0	0.92
ybdO	putative lys	0.94	0.1	1	0.86	0.19	1	0.92
ilar to head	protein gp7	0.05	0.01	1	0.89	0.12	1	n/a
lplA	lipoate-prot	0.75	0.06	1	1.18	0.17	1	1.09
viaJ	putative tra	1.01	0.04	1	1.37	0.18	1	1.44
yhjB	hypothetica	0.97	0.05	1	1.22	0.13	1	1.29
	gntR family	1.03	0.09	1	1.38	0.17	1	1.37
ne protein		0.29	0.3	1	1.31	0.13	1	n/a
	putative me	1.12	0.18	1	1.19	0.19	1	1.19
	putative an	1.13	0.15	1	0.76	0.12	1	0.81
	putative me	1.14	0.18	1	1.3	0.25	1	1.24
mviM	putative vir	0.96	0.11	1	0.75	0.15	1	0.79
eutB	ethanolami	0.97	0.09	1	0.99	0.21	1	0.99
yihZ	conserved	1.07	0.16	1	1.41	0.15	1	1.47
lipA	lipoic acid s	0.94	0.09	1	1.11	0.27	1	0.93
ssaS	putative typ	1.1	0.08	1	1.08	0.29	1	0.69
cbiA	cobyrinic ac	0.99	0.06	1	0.83	0.11	1	0.87
cysE	serine acet	0.97	0.06	1	1.36	0.1	1	1.26
ybhN	putative me	0.88	0.05	1	1.1	0.18	1	0.8
modC	molybdenu	0.99	0.06	1	0.97	0.11	1	0.86
pykF	pyruvate ki	0.96	0.07	1	0.83	0.1	1	0.86
hisP	histidine tra	0.94	0.06	1	0.92	0.14	1	0.89
leuA	2-isopropyl	0.91	0.04	1	1.1	0.14	1	1.06
htrA	protease D	0.89	0.07	1	1.04	0.13	1	0.98
hupB	DNA-bindir	1.22	0.21	1	1.08	0.12	1	0.88
trkA	potassium	1.08	0.32	1	1.21	0.22	1	1.18
sipF	probable ac	0.95	0.1	1	1.02	0.38	1	1.14
fimD	outer mem	0.99	0.12	1	0.95	0.12	1	0.92
	putative me	1.06	0.11	1	0.86	0.33	1	0.79
sucD	succinyl-Co	0.95	0.15	1	1.05	0.15	1	0.87
hydG	transcriptio	0.91	0.17	1	1.31	0.16	1	1.24

	conserved	0.95	0.08	1	1.13	0.15	1	1.26
pduC	glycerol de	0.83	0.05	1	0.88	0.17	1	0.9
		0.72	0.07	1	1.09	0.14	1	1.31
nuoH	NADH dehyd	1.07	0.12	1	0.94	0.08	1	0.87
yhcP	putative me	1.01	0.04	1	1.08	0.16	1	1.18
	putative ex	1.02	0.13	1	1.19	0.17 n/a		1.22
tyrA	chorismate	1	0.04	1	0.88	0.1	1	0.99
csgF	assembly/t	1.01	0.13	1	0.97	0.23	1	0.77
yihV	putative su	0.94	0.06	1	1.25	0.13	1	1.25
yjaG	conserved	0.98	0.07	1	1.13	0.1	1	1.33
hycH	formate hyd	0.87	0.12	1	1.22	0.22	1	1.2
	putative me	0.99	0.13	1	1.37	0.1	1	1.45
miaB	MiaB prote	0.91	0.15	1	0.95	0.13	1	0.8
ybaE	putative so	0.99	0.16	1	1.04	0.1	1	0.85
nrfA	cytochrome	1.05	0.13	1	1.13	0.15	1	1.25
	invasin-like	1.03	0.16	1	0.73	0.24	1	0.77
prmA	ribosomal p	0.95	0.14	1	1.05	0.09	1	1.4
mltA	membrane	1.05	0.13	1	1.11	0.23	1	1.18
	possible su	1.11	0.08	1	1.04	0.18	1	1.07
cpxA	two-compo	0.98	0.06	1	1.42	0.16	1	1.23
deoR	deoxyribos	0.88	0.12	1	1.06	0.35	1	0.79
cyaY	CyaY prote	0.97	0.14	1	1.34	0.1	1	1.34
ilvD	dihydroxya	0.83	0.03	1	1.44	0.17	1	1.27
caiA	probable c	1.1	0.04	1	1.06	0.2	1	1.15
ilvM	acetohydro	1	0.08	1	1.29	0.15	1	1.2
yfgA	putative DN	0.97	0.07	1	1.01	0.17	1	1.04
minC	septum site	0.95	0.08	1	0.86	0.21	1	0.9
	conserved	0.99	0.1	1	0.79	0.47	1	0.78
fucA	fuculose-1-	0.95	0.06	1	1.1	0.14	1	1.2
iap	alkaline ph	0.94	0.08	1	1.04	0.07	1	1.22
yigM	putative me	1.05	0.15	1	1.34	0.17 n/a		1.2
hemC	porphobilin	0.99	0.1	1	1.41	0.24	1	1.35
secE	preprotein	1.06	0.14	1	1.16	0.23	1	1.35
sdaA	L-serine de	0.98	0.06	1	0.75	0.21	1	0.97
chaA	putative ca	1.05	0.13	1	0.8	0.07	1	0.81
	putative su	1	0.08	1	0.69	0.03	1	0.73
manZ	phosphotra	1.03	0.07	1	0.64	0.13	1	0.78
	putative ca	1.03	0.13	1	0.7	0.14	1	0.87
aspS	aspartyl-tR	1	0.04	1	0.78	0.12	1	0.86
hyi	hydroxypyr	0.96	0.08	1	1.01	0.23	1	0.92
ybcI	putative me	0.75	0.06	1	0.97	0.09	1	0.85
	hypothetica	0.94	0.06	1	1	0.13	1	0.84
ansP	L-asparagin	1.05	0.05	1	0.66	0.09	1	0.75
	putative re	0.98	0.07	1	0.71	0.2	1	0.75
glgX	putative gly	0.96	0.09	1	0.61	0.05	1	0.72
dadA	D-amino ac	0.98	0.07	1	0.71	0.12	1	0.86
ε class III		0.1	0.02	1	0.71	0.07	1 n/a	
	putative cy	0.97	0.17	1	0.68	0.14	1	0.79
	putative thi	0.97	0.07	1	0.71	0.07	1	0.86
	conserved	1.11	0.14	1	0.67	0.06	1	0.76
dpiA	transcriptio	1.15	0.07	1	0.99	0.15	1	0.91
lpxK	tetraacyldis	1.02	0.11	1	0.89	0.2	1	0.83

serS	seryl-tRNA	1.1	0.14	1	0.74	0.08	1	0.77
kdgR	probable gl	1.07	0.16	1	1.01	0.14	1	1.09
	putative lya	0.98	0.17	1	1.02	0.15	1	0.9
roetin		0.45	0.07	1	1.32	0.23	1	1.23
	conserved	0.96	0.1	1	1.05	0.06	1	1.2
	putative glu	0.92	0.06	1	1.33	0.23	1	1.34
		0.61	0.07	1	1.36	0.09	1	1.46
recN	probable tv	0.92	0.06	1	1.15	0.14	1	1.31
	DNA repair	0.92	0.07	1	0.96	0.14	1	1.16
yfhS	conserved	0.97	0.1	1	1.05	0.15	1	1.13
		0.06	0.01	1	1.19	0.15	1 n/a	
		0.96	0.05	1	1.13	0.09	1	1.11
		0.95	0.06	1	1.18	0.13	1	1.32
yfiN	putative pu	1.03	0.14	1	1.3	0.23	1	1.27
	putative me	0.93	0.13	1	1.05	0.15	1	1.19
pin		0.74	0.11	1	0.92	0.12	1	0.87
metK	S-adenosyl	1.09	0.09	1	1.09	0.1	1	1.2
ampG	AmpG prot	0.94	0.14	1	0.98	0.16	1	0.82
		0.17	0.05	1	1.23	0.14	1 n/a	
yegN	putative RM	0.87	0.08	1	0.9	0.11	1	0.81
yohF	putative ox	0.91	0.06	1	0.95	0.1	1	0.79
yhdN	conserved	0.86	0.14	1	1.04	0.12	1	1.3
ybjZ	conserved	0.97	0.16	1	0.9	0.11	1	0.81
sgaE	probable cl	1.06	0.13	1	1.06	0.15	1	1.18
	putative inr	0.98	0.1	1	1	0.16	1	1.03
	putative N-	0.87	0.06	1	0.93	0.1	1	0.74
yjeB	conserved	0.99	0.1	1	1.06	0.2	1	1.22
tdcA	TDC opero	0.92	0.11	1	1.05	0.06	1	1.41
hybC	hydrogena	0.9	0.09	1	1.11	0.19	1	1.22
srlB	PTS syster	0.93	0.07	1	1.16	0.27	1	1.02
hypf	hydrogena	0.91	0.07	1	1.07	0.09	1	1.14
regulator		0.26	0.06	1	0.97	0.12	1 n/a	
hycF	formate hy	0.76	0.06	1	1.13	0.22	1	1.13
rplY	50s ribosor	1.04	0.28	1	1.06	0.21	1	0.97
wcaF	putative ac	1.08	0.14	1	0.84	0.16	1	0.81
cirA	colicin I rec	1.07	0.09	1	0.85	0.24	1	0.87
kdsA	2-dehydro-	1.1	0.14	1	0.66	0.06	1	0.79
	conserved	1.04	0.17	0	1.66	0.49	0	0.7
	hypothetica	1.04	0.14	1	0.98	0.15	1	0.92
uvrB	excision nu	1.04	0.14	1	0.86	0.09	1	0.8
hydrogenase		0.08	0.01	1	0.8	0.1	1 n/a	
ptsO	phosphoca	1.02	0.14	1	1.19	0.36	0	1.13
slsA	conserved	1.03	0.1	1	1.23	0.22	1	1.49
ybiT	ABC transp	0.97	0.05	1	0.93	0.09	1	0.78
degQ	serine prot	0.96	0.09	1	1.05	0.12	1	1.29
gatC	PTS syster	1.01	0.08	1	1.05	0.23	1	1.34
dsbA	disulfide isc	1.03	0.05	1	1.01	0.12	1	1.34
yojL	thiamine bi	0.92	0.06	1	0.86	0.1	1	0.79
ybgC	conserved	1.04	0.14	1	1.05	0.16	0	0.79
	Penicillin-b	0.96	0.16	1	1.1	0.13	1	1.31
cspA	conserved	0.97	0.12	1	1.14	0.12	1	1.23
	cold shock	1	0.22	0	1.17	0.26	0	1



	conserved	1.07	0.09	1	1.07	0.16	1	1.23
	hypothetica	1.01	0.08	1	0.92	0.12	1	0.9
hutC	histidine uti	1.1	0.11	1	0.88	0.09	1	0.78
cydB	cytochrome	1.12	0.1	1	0.88	0.08	1	0.63
rpmB	50S riboso	0.98	0.09	1	1.4	0.11	1	1.41
prgJ	pathogenic	1	0.14	1	1.12	0.1	1	1.2
ssaM	putative pa	0.96	0.16	1	0.82	0.26	0	0.74
	conserved	1.08	0.08	1	0.78	0.08	1	0.99
	hypothetica	0.93	0.09	1	0.96	0.18	1	0.98
rotein		0.98	0.06	1	1.19	0.11	1 n/a	
	putative pa	1.04	0.04	1	0.68	0.04	1	0.73
yhgG	conserved	0.93	0.07	1	1.21	0.08	1	1.28
nusG	transcriptio	0.95	0.08	1	1.21	0.12	1	1.3
	possible Ly	1.07	0.06	1	1.26	0.14	1	1.1
	possible tra	1	0.09	1	1.31	0.07	1	1.21
		1.38	0.16	1	0.98	0.11 n/a		1.15
	putative ac	1.18	0.16	1	0.71	0.07	1	0.7
araA	L-arabinosi	1.04	0.06	1	1.04	0.1	1	0.96
malX		1.22	0.1	1	0.68	0.09	1	0.76
	hypothetica	0.94	0.15	1	0.76	0.08	1	0.81
	doubtful CI	0.95	0.15	1	1.03	0.19	1	1.25
	conserved	1.1	0.13	1	1.29	0.44	0	0.89
leuL	leu operon	1.06	0.17	0	1.28	0.42	0	1.01
	hypothetica	0.85	0.16	0	1.33	0.29	0	0.95
ine protein		1.09	0.24	0	1.34	0.44	0 n/a	
ne protein		0.95	0.12	1	0.74	0.1 n/a		0.85
ivbL	ilvBN opero	0.98	0.08	0	1.44	0.31	0	1.16
	conserved	0.96	0.14	1	1.07	0.08	1	1.25
	PGM/PMM	0.94	0.04	1	1.14	0.12	1	1.08
	putative pro	1	0.11	1	0.77	0.09	1	0.69
		0.31	0.08	1	0.72	0.06	1 n/a	
ein		0.3	0.09	1	0.79	0.05	1 n/a	
	putative me	1.02	0.12	1	0.88	0.09	1	0.77
ise		0.05	0.01	1	0.56	0.04 n/a	n/a	
mbrial acetylation		0.06	0.03	1	0.62	0.04 n/a	n/a	
ating signal		0.08	0.05	1	0.67	0.19 n/a	n/a	
		0.39	0.06	1	0.61	0.08 n/a		1.09
ient killing		0.08	0.01	1	0.63	0.06 n/a	n/a	
egulation		0.05	0.01	1	0.61	0.05 n/a	n/a	
rotein		0.89	0.1	1	1.03	0.29	0 n/a	
		0.95	0.08	1	1.17	0.17 n/a		1.14
		0.84	0.1	1	0.76	0.14	1	0.9
		1.02	0.11	1	0.78	0.14 n/a		0.9
		1.08	0.07	1	0.79	0.1 n/a		0.83
tor		1.02	0.11	1	0.82	0.07	1	0.88
		0.95	0.09	1	1.1	0.09 n/a		1.37
		0.91	0.05	1	1.11	0.09 n/a		1.17
		1.05	0.1	1	1.11	0.14 n/a		1.22
		1	0.15	1	1.15	0.11 n/a		1.21
able tail assembly prot		0.11	0.02	1	0.8	0.08	1 n/a	
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	conserved	16.07	2.78	1 n/a	n/a	n/a	n/a	0.78

	putative int	8.34	3.05	1	n/a	n/a	n/a	0.8
	hypothetica	5.7	1.31	1	n/a	n/a	n/a	1.1
	putative ba	3.25	0.96	1	n/a	n/a	n/a	1.17
	putative IS	7.24	3.29	1	n/a	n/a	n/a	0.95
	probable se	5.91	1.13	1	n/a	n/a	n/a	0.88
	probable ui	6.73	2.17	1	n/a	n/a	n/a	1.32
	hypothetica	8.6	3.19	1	n/a	n/a	n/a	1.24
	phage bas	3.97	0.39	1	n/a	n/a	n/a	1.21
	conserved	8.42	3.23	1	n/a	n/a	n/a	1.12
	hypothetica	2.85	0.55	1	n/a	n/a	n/a	1.01
tcfA	putative fir	10.66	3.85	1	n/a	n/a	n/a	0.94
	probable ca	3.6	0.37	1	n/a	n/a	n/a	1.16
	putative ph	4.02	0.53	1	n/a	n/a	n/a	1.13
stgD	probable fir	6.84	2.43	1	n/a	n/a	n/a	1.09
	hypothetica	1.99	0.83	0	n/a	n/a	n/a	0.77
gam	bacterioph	14.17	4.08	1	n/a	n/a	n/a	0.63
	putative ba	14.49	5.18	1	n/a	n/a	n/a	0.62
	putative ba	6.5	2.66	1	n/a	n/a	n/a	0.93
	hypothetica	12.26	6.21	1	n/a	n/a	n/a	1.06
	probable te	2.06	0.19	1	1.06	0.12	n/a	1.21
vexE	Vi polysacc	13.51	1.67	1	n/a	n/a	n/a	1.05
	hypothetica	9.39	2.6	1	n/a	n/a	n/a	0.98
cl	phage imm	9.38	2.26	1	n/a	n/a	n/a	1.09
	hypothetica	19.82	7.71	1	n/a	n/a	n/a	1.13
	hypothetica	29.43	8.9	1	n/a	n/a	n/a	1
hsdM		1.81	0.15	1	1.11	0.17	n/a	1.06
	conserved	1.73	0.11	1	1.04	0.11	n/a	1.08
tviE	Vi polysacc	20.55	3.38	1	n/a	n/a	n/a	1.08
cII	transcriptio	5.09	1.03	1	n/a	n/a	n/a	1.03
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
pmrB	two-compo	0.91	0.05	1	1.12	0.2	1	1.23
	stop; putative integrase	0.07	0.04	1	1.54	0.23	1	n/a
gidA	glucose inh	0.73	0.09	1	1.31	0.19	1	1.51
rpoN	RNA polym	0.83	0.09	1	1.06	0.18	1	1.35
parE	topoisomer	0.04	0.08	1	1.08	0.35	1	0.97
rplU	50S riboso	0.69	0.14	1	1.11	0.2	1	1.26
citG2	citg protein	0.94	0.09	1	1.14	0.22	1	0.94
lpxC	UDP-3-O-[-	0.58	0.04	1	1.17	0.19	1	0.71
yacC	conserved	0.2	none	1	1.14	0.31	1	1.67
yadB	glutamyl-tR	0.53	0.27	1	1.2	0.23	1	1
cdsA	phosphatid	0.54	0.45	0	1.69	0.63	0	0.84
ie		0.27	0.09	1	0.73	0.08	1	-0.34
	possible ex	0.88	0.11	1	1.07	0.17	1	1.26
		0.91	0.1	1	0.93	0.11	1	0.75
rotein		0.1	0.02	1	1.01	0.1	1	n/a
ybfM	putative ou	0.95	0.13	1	0.89	0.16	1	0.89
	conserved	0.92	0.12	1	1.01	0.1	1	0.83

pgtC	phosphogly	0.92	0.07	1	0.97	0.12	1	1.08
wcaK		0.86	0.04	1	0.87	0.32	1	0.91
ine protein		0.11	0.03	1	1.07	0.08	1 n/a	
	putative mε	0.91	0.07	1	0.98	0.18	1	0.95
ferase system IIC comp		0.08	0.03	1	1.14	0.1	1 n/a	
	conserved	0.74	0.1	1	1.01	0.09	1	1.1
eroxide dismutase prec		0.11	0.03	1	0.94	0.13	1 n/a	
	ClpB-like p	0.85	0.08	1	1.13	0.07	1	0.96
Ill glucitol		0.06	0.01	1	1.24	0.21	1 n/a	
	probable se	0.73	0.1	1	1.18	0.18	0	0.89
pipB	conserved	0.89	0.08	1	1.12	0.31	1	0.87
zntR	putative Zn	0.82	0.08	1	1.2	0.16	1	1.36
yhfA	conserved	0.98	0.11	1	1.19	0.1	1	1.23
	conserved	0.89	0.11	1	0.88	0.18	1	0.8
speG	spermidine	0.9	0.14	1	1.06	0.27	1	0.83
slyD	FKBP-type	0.98	0.1	1	1.15	0.15	1	1.19
yrfD	conserved	0.89	0.08	1	1.25	0.15	1	1.22
icdA	isocitrate d	1.04	0.11	1	0.73	0.08	1	0.74
	putative tra	0.8	0.12	1	0.87	0.28	1	0.84
kefB	glutathione	0.91	0.05	1	1.03	0.18	1	1.03
	putative gly	0.9	0.06	1	0.8	0.11	1	0.75
	putative he	0.94	0.02	1	0.75	0.12	1	0.93
rotein		0.24	0.03	1	1.45	2.3	1 n/a	
rhaD		0.84	0.06	1	1.27	0.13	1	1.43
ing chemotaxis protein		0.11	0.03	1	1.21	0.05	1 n/a	
ydeZ	putative AE	1	0.06	1	1.27	0.14	1	1.23
otein		0.23	0.05	1	1.44	0.31	1 n/a	
ygbA	conserved	0.99	0.15	0	1.07	0.47	0	1.01
ygbJ		0.5	0.05	1	1.11	0.11	1	1.15
	conserved	0.81	0.1	1	0.84	0.05	1	0.93
yfeA	putative mε	0.88	0.09	1	0.86	0.16	1	0.98
ive DNA or RNA helica		0.05	0.02	1	0.86	0.1	1 n/a	
	conserved	0.74	0.06	1	0.89	0.24	1	0.86
cydD	transport A	0.81	0.07	1	0.75	0.23	1	0.83
ilar to tail fiber-like prote		0.11	0.03	1	0.83	0.17 n/a	n/a	
yiiQ	conserved	0.91	0.14	1	1.25	0.12	1	1.34
	putative lipi	0.99	0.12	1	1.21	0.14	1	1.23
	possible pe	0.93	0.05	1	1.05	0.13	1	1.04
rotein		0.16	0.03	1	1.03	0.11	1 n/a	
	putative mε	0.97	0.06	1	0.91	0.14 n/a		0.68
ive chaparone		0.05	0.01	1	0.85	0.13	1 n/a	
rd ompX homologue		0.11	0.04	1	0.78	0.1	1 n/a	
yfgB	conserved	0.82	0.05	1	0.95	0.06	1	1.1
	putative mε	0.97	0.1	1	0.87	0.15	1	0.86
tyrP	tyrosine-sp	0.9	0.08	1	0.71	0.07	1	0.86
	putative mε	0.9	0.11	1	0.9	0.18	0	0.77
hosphate-requiring en:		0.14	0.03	1	1.05	0.12	1 n/a	
nt Lon protease		0.03	0.01	1	1.12	0.17	1 n/a	
	putative mε	0.86	0.08	1	1.12	0.09	1	1.18
	hypothetica	0.91	0.18	1	1.18	0.13	0	1.02
accD	acetyl-CoA	0.86	0.08	1	0.92	0.15	1	0.9
	hypothetica	0.87	0.11	1	0.73	0.16	1	0.76

rpIT	50S ribosom	0.98	0.12	1	1.03	0.32	0	0.89
crr	pts system	0.88	0.09	1	1.07	0.27	1	0.99
	putative me	0.89	0.09	1	0.78	0.05	1	0.75
	putative se	0.94	0.17	1	0.76	0.08	1	0.79
sprB	possible Ar	0.82	0.05	1	1.08	0.15	1	1.26
yojN	putative tw	0.95	0.07	1	0.82	0.07	1	0.95
uvrC	excinuclea	0.85	0.05	1	0.76	0.1	1	0.78
otein		0.1	0.03	1	0.82	0.12	1	n/a
alkB	AlkB protei	0.82	0.05	1	0.89	0.06	1	0.85
celF	phospho-br	1	0.05	1	0.79	0.07	1	0.82
hydrogenase		0.09	0.02	1	0.86	0.21	1	n/a
doxine kinase		0.77	0.05	1	0.77	0.17	1	0.77
	putative me	0.95	0.07	1	0.74	0.06	1	0.74
malM	maltose op	0.83	0.07	1	1.16	0.17	1	1.3
torT	Solute bind	0.86	0.09	1	1.34	0.19	1	1.35
ydG	conserved	1.01	0.11	1	1.57	0.23	1	1.14
rpsB	30S ribosom	0.9	0.12	1	1.07	0.16	1	1.1
hemB	delta-amin	0.88	0.11	1	0.99	0.14	1	0.97
ftsA	cell divisor	0.87	0.09	1	1.1	0.2	1	0.96
nuoB	NADH dehy	0.99	0.11	1	0.92	0.11	1	1.01
trpH	conserved	0.93	0.11	1	0.9	0.18	1	0.74
dnaN	DNA polym	0.88	0.05	1	1.52	0.24	1	1.46
ssrA	putative tw	0.84	0.04	1	0.7	0.08	1	0.84
in N, non-specific porin		0.72	0.06	1	0.7	0.06	1	0.8
fimC	fimbrial cha	1	0.04	1	1.05	0.13	1	0.9
yleE	conserved	0.98	0.07	1	1.34	0.08	1	1.44
	putative me	0.87	0.05	1	0.95	0.11	1	0.93
yfiE		0.91	0.03	1	0.97	0.13	1	1.12
	conserved	0.9	0.06	1	1.07	0.13	1	1.13
glpG	putative me	0.86	0.13	1	1.22	0.09	1	1.22
ne protein		1.08	0.19	1	1.33	0.32	0	n/a
		0.21	0.04	1	0.82	0.1	1	n/a
		0.13	0.02	1	0.78	0.11	n/a	n/a
ybdA	hypothetica	0.93	0.1	1	0.87	0.16	1	0.83
yjfQ	probable tr	0.82	0.09	1	1.18	0.2	1	1.12
	cytosol ami	0.81	0.1	1	1.19	0.09	1	1.18
	conserved	0.96	0.11	1	1.06	0.14	1	1.09
	conserved	0.75	0.1	1	1.24	0.23	1	1.31
tdcC		0.95	0.08	1	1.02	0.16	1	1.22
garL	5-keto-4-de	0.93	0.06	1	1.14	0.11	1	1.3
	putative 2,4	0.99	0.04	1	0.85	0.08	1	0.86
	conserved	0.99	0.07	1	0.95	0.12	1	1.05
recR	recombinat	0.95	0.04	1	0.93	0.1	1	0.88
maA	maltose O-	0.87	0.1	1	1.05	0.17	1	0.91
ne protein		0.21	0.02	1	1	0.09	1	n/a
glnA	glutamine s	0.86	0.03	1	1.37	0.15	1	1.4
ybiY	putative py	0.88	0.08	1	0.92	0.1	1	0.83
sucC	succinyl-Cc	0.91	0.08	1	0.9	0.13	1	0.82
glnL	Two-compr	0.92	0.08	1	1.28	0.12	1	1.34
hisJ	histidine-bi	0.97	0.09	1	0.94	0.16	1	0.94
fruR	fructose rej	0.89	0.1	1	1.24	0.12	1	0.94
fldA	flavodoxin	0.92	0.09	1	0.98	0.07	1	0.81

sdhB	succinate c	0.94	0.11	1	0.85	0.16	1	0.86
lpxA	acyl-[acyl-c	0.89	0.08	1	0.99	0.19	1	0.91
trmD	tRNA(guan	0.89	0.1	1	0.95	0.15	1	1.12
hfQ	host factor-	0.88	0.09	1	1.15	0.21	1	1.12
hemA	glutamyl-tR	0.79	0.09	1	0.82	0.11	1	0.89
purN	phosphorib	0.91	0.07	1	1.04	0.24	1	0.92
moeA	molybdopte	0.9	0.05	1	0.94	0.1	1	0.78
roprotein		0.23	0.06	1	0.73	0.04	1	n/a
pfkA	6-phosphol	1	0.05	1	1.26	0.06	1	1.21
gltJ	glutamate/:	0.96	0.07	1	0.87	0.04	1	0.86
yrdA	putative tra	1.01	0.08	1	0.96	0.08	1	1.16
	conserved	1.1	0.21	1	0.74	0.18	1	0.73
	putative ba	0.48	0.06	1	0.8	0.17	n/a	0.8
pduM	conserved	0.74	0.08	1	0.97	0.13	1	0.91
	putative me	0.9	0.05	1	1.2	0.17	1	1.3
yecF	conserved	0.99	0.14	1	0.87	0.12	1	0.8
		0.85	0.08	1	1.17	0.19	n/a	1.14
	possible tra	0.95	0.07	1	1.24	0.17	1	1.17
	conserved	0.93	0.09	1	1.18	0.4	1	1.11
thrB	homoserine	0.9	0.11	1	1.16	0.2	1	0.99
	hypothetica	0.92	0.15	1	1.24	0.44	0	0.87
	hypothetica	0.93	0.1	0	1.07	0.43	0	0.92
	possible ex	0.78	0.07	1	1.28	0.21	1	1.33
	hypothetica	1.01	0.06	1	0.96	0.22	1	1.01
		0.08	0.02	1	0.84	0.15	1	n/a
mgIC	galactoside	1	0.03	1	0.82	0.15	1	0.75
apeE	outer mem	0.86	0.06	1	0.91	0.13	1	0.85
fhuA		0.85	0.04	1	0.98	0.16	1	1
		0.88	0.07	1	1.08	0.1	n/a	1.26
nuoE	NADH dehy	0.9	0.06	1	0.81	0.11	1	0.79
	possible lip	0.84	0.08	1	1.01	0.05	1	1.11
yigZ	conserved	0.98	0.05	1	1.28	0.18	1	1.05
rhtB	homoserine	0.9	0.06	1	1.35	0.18	1	1.12
hemY	Prophyrin t	0.86	0.07	1	1.31	0.23	1	1.22
rplA	50S riboso	0.91	0.11	1	1.18	0.22	1	1.38
rffD	UDP-ManN	0.84	0.08	1	1.33	0.31	1	1.16
murB	UDP-N-ace	0.87	0.1	1	1.15	0.28	1	1.2
flil	flagellum-s	0.84	0.07	1	0.84	0.22	1	0.81
ptsH	phosphoca	0.89	0.1	1	0.97	0.13	1	1.14
araC	arabinose c	0.78	0.08	1	1.05	0.2	1	0.97
eno	enolase	0.86	0.08	1	1.15	0.18	1	1.32
fpr	ferredoxin-	0.92	0.07	1	1.17	0.12	1	1.23
hisA	phosphorib	0.87	0.05	1	0.84	0.05	1	0.77
	putative lip	0.93	0.05	1	1.3	0.22	1	1.14
yjaD	conserved	0.72	0.04	1	1.22	0.13	1	1.2
ddlA	D-alanine:1	1	0.03	1	0.91	0.12	1	0.9
cheA	chemotaxis	0.93	0.05	1	0.7	0.14	1	0.78
treA		0.87	0.06	1	0.75	0.08	1	0.78
		0.72	0.03	1	0.71	0.18	1	0.8
	conserved	0.98	0.06	1	0.68	0.07	1	0.74
artJ	arginine-bir	0.95	0.08	1	0.9	0.08	1	0.84
citG	CitG protei	0.88	0.08	1	1	0.13	1	0.82

ycbC	putative me	0.9	0.07	1	1	0.15	1	0.84
	conserved	0.87	0.09	1	1.28	0.21	1	1.36
ybdH	putative ox	0.89	0.09	1	0.99	0.14	1	0.92
	putative ps	1.01	0.11	1	0.83	0.07	1	0.78
fdnG		0.46	0.07	1	0.73	0.12	1	0.82
	putative AT	0.87	0.08	1	0.74	0.17	1	0.84
	conserved	0.84	0.09	1	0.91	0.22	1	0.86
YVIII) in E. coli		0.18	0.04	1	0.66	0.07	1	n/a
yebB	conserved	0.86	0.05	1	0.95	1.45	0	0.75
ybaN	putative me	0.94	0.05	1	0.93	0.13	1	0.83
	putative pe	0.93	0.06	1	0.95	0.19	1	0.8
	putative me	0.8	0.07	1	0.96	0.12	1	0.96
	putative re	0.85	0.08	1	0.73	0.05	1	0.72
drolase		0.11	0.02	1	1.09	0.19	1	n/a
		0.92	0.1	1	0.94	0.21	n/a	0.8
iroC	putative AE	0.79	0.04	1	1.07	0.2	1	1.09
glyS	glycine-tRN	0.52	0.04	1	1.23	0.16	1	1.33
	spanning protein	0.9	0.08	1	0.94	0.1	1	0.81
ft		0.36	0.08	0	1.18	0.26	n/a	n/a
	possible Ar	0.76	0.09	1	1.2	0.13	1	1.3
lysA	diaminopir	0.92	0.1	1	1.16	0.21	1	0.99
speB	agmatine u	0.8	0.09	1	1.14	0.26	1	1.27
otein		0.22	0.07	1	0.93	0.24	1	n/a
hydN	electron tra	1.03	0.11	1	1.19	0.25	1	1.1
yaC	putative ac	0.9	0.11	1	1.35	0.22	1	1.36
	putative PT	0.9	0.05	1	1.26	0.12	1	1.35
ygdB	conserved	0.91	0.04	1	1.1	0.07	1	1.04
	conserved	1.07	0.08	1	0.99	0.17	1	1.09
yqgA	putative me	0.94	0.05	1	0.93	0.2	1	1.19
hybE	hydrogena	0.85	0.06	1	1.22	0.11	1	1.16
	putative ca	1.11	0.08	1	1.05	0.08	1	1.29
yehX	ABC transp	0.89	0.05	1	0.84	0.1	1	0.92
	putative lip	1.05	0.1	1	0.79	0.07	1	0.82
rplE	50S riboso	0.89	0.08	1	1.21	0.09	1	1.41
	puative phc	0.93	0.07	1	1.22	0.08	1	1.26
ftsH	cell divisor	0.9	0.09	1	1.08	0.16	1	1.22
	possible gly	0.85	0.07	1	1.2	0.19	1	1.19
	hypothetica	0.84	0.08	1	1.09	0.2	1	1.26
	possible ex	0.85	0.07	1	1.25	0.16	1	1.1
uxuR	uxu operon	0.88	0.06	1	1.03	0.15	1	1.09
dsbD	thiol:disulf	0.94	0.08	1	1.27	0.19	1	1.11
	conserved	1.01	0.11	1	1.01	0.09	1	0.92
	putative hy	0.92	0.11	1	0.99	0.1	1	0.88
srlM	glucitol ope	0.95	0.06	1	1.09	0.14	1	1.02
metG	methionyl-t	0.88	0.02	1	0.85	0.1	1	0.96
bcr	bicyclomyc	1.02	0.06	1	0.82	0.11	1	0.76
		0.63	0.07	1	1.09	0.17	n/a	0.85
pbpG		0.87	0.04	1	0.92	0.08	1	0.86
yafE	putative me	0.94	0.04	1	0.98	0.08	1	1.02
ssaH	putative pa	0.9	0.1	0	1.02	0.44	0	0.93
sdhD	succinate c	1.03	0.06	1	0.95	0.17	1	0.94
		0.55	0.08	1	0.88	0.18	1	0.7

corE	putative me	0.91	0.1	1	1	0.11	1	1.04
	conserved	0.95	0.09	1	1.17	0.09	n/a	1.22
	putative ex	0.92	0.1	1	1.08	0.17	1	1.34
yliD	hypothetica	1.04	0.11	1	0.89	0.15	1	0.67
ttrB	tetrathional	0.85	0.07	1	0.78	0.15	1	0.82
	conserved	0.93	0.08	1	1.23	0.13	1	1.33
	hypothetica	0.82	0.08	1	1.08	0.15	1	1.38
fldB	flavodoxin	0.97	0.08	1	1.06	0.16	1	1.11
aroG	phospho-2-	0.92	0.14	1	0.89	0.24	1	0.84
flgK	flagellar ho	0.98	0.05	1	0.74	0.08	1	0.75
cheZ	chemotaxis	0.96	0.05	1	0.8	0.07	1	0.83
	possible alk	0.96	0.05	1	1.04	0.1	1	1.35
scsA	membrane	1	0.11	1	0.85	0.09	1	0.78
pal	peptidoglyc	0.94	0.08	1	0.9	0.14	1	0.97
bioC	biotin synth	0.82	0.05	1	0.9	0.09	1	0.71
ybdB	conserved	0.97	0.06	1	0.97	0.05	1	0.77
yfhJ	conserved	0.95	0.06	1	1.07	0.05	1	1.09
acrD	putative eff	0.87	0.06	1	0.92	0.15	1	0.85
csrA	carbon stor	1.06	0.07	1	0.96	0.08	1	1.12
able minor tail protein		0.07	0.01	1	0.76	0.07	1	n/a
rotein		0.2	0.05	1	1.1	0.18	1	n/a
rpoZ	DNA-direct	0.88	0.1	1	1.44	0.16	1	1.46
mtlD	mannitol-1-	0.9	0.11	1	1.23	0.14	1	1.24
	hypothetica	0.76	0.07	1	1.21	0.18	1	1.07
ne protein		0.15	0.04	1	1.27	0.16	1	n/a
	putative me	0.92	0.1	1	0.79	0.17	1	0.86
ar to E. coli retron Ec67		0.34	0.07	1	1	0.17	1	n/a
	conserved	0.93	0.06	1	1.23	0.1	1	1.29
	conserved	0.89	0.05	1	1.02	0.12	1	0.89
athogenicity factor		0.1	0.03	1	0.68	0.1	1	n/a
ykgD	hypothetica	0.83	0.06	1	0.95	0.16	1	0.75
rotein		0.2	0.05	1	0.71	0.05	1	n/a
osmC	osmotically	1	0.11	1	1.26	0.12	1	1.35
	conserved	0.97	0.08	1	1.13	0.11	1	1.02
late kinase		0.09	0.03	1	1.43	0.1	1	n/a
yhjA	probable cy	0.89	0.09	1	1.48	0.18	1	1.27
ne protein		0.97	0.05	1	1.06	0.16	1	n/a
rotein		0.91	0.15	0	1.12	0.2	0	n/a
nifU	NifU-like pr	0.93	0.09	1	1.04	0.12	1	1.05
	probable pl	0.93	0.1	1	1.12	0.15	1	1.16
ilar to head to tail joinin		0.12	0.03	1	0.92	0.13	1	n/a
rimK	ribosomal p	0.96	0.09	1	0.83	0.13	1	0.73
cspD	cold shock-	1.01	0.11	1	0.89	0.1	1	0.81
xis	excisionase	0.83	0.1	1	0.85	0.13	1	0.79
moaD	molybdopte	0.69	0.05	1	0.81	0.26	1	0.75
		0.09	0.03	1	0.7	0.1	n/a	n/a
eshifts relative to E. col		0.04	0.01	1	0.69	0.09	n/a	n/a
ssembly		0.04	0.01	1	0.64	0.06	n/a	n/a
ssembly		0.04	0.01	1	0.56	0.08	n/a	n/a
riae;chaparone		0.04	0.01	1	0.66	0.07	n/a	n/a
ine protein		0.05	0.02	1	0.61	0.07	n/a	n/a
rotein		0.09	0.01	1	0.65	0.07	n/a	n/a





Setting either criterium in the respective genome

STD_DEV	THRESHO	E. coli B nu	MEDIAN_F	STD_DEV	THRESHO	MEDIAN_F	STD_DEV	THRESHO
n/a	n/a		1.86	1.12	1	2.63	2.14	1
0.15	0	b1937	1.24	0.41	0	1.01	1.42	1
0.15	1	b3017	1.14	0.35	0	1.56	1.19	0
0.05	1		1.18	0.26	0	1.4	0.52	0
0.11	1	b0047	1.04	0.55	0	1.44	0.68	0
0.08	1	b0104	0.62	0.27	1	0.59	0.4	1
0.04	1	b0090	1.61	0.44	1	1.45	0.5	1
0.15	1		1.29	0.41	0	2.06	0.47	1
0.18	1	b0142	0.83	0.44	1	1.34	0.53	0
0.08	1	b0168	0.54	0.15	1	0.85	0.43	1
0.28	1	b0199	1.44	0.29	0	1.19	0.45	0
0.07	n/a		1.41	0.99	0	1.24	0.65	0
0.07	1	b0679	12.6	4.7	1	4.76	3.23	1
0.07	1	b0710	0.76	0.77	0	1.16	0.51	1
0.14	1	b4242	1.33	0.73	0	1.33	0.56	0
0.17	1		2.09	0.21	0	1.64	0.57	0
0.18	1		1.66	0.57	0	1.63	0.3	0
0.1	1	b0931	0.91	0.39	0	1.05	0.83	1
0.26	1	b3705	0.68	0.54	1	0.91	0.45	1
0.06	1	b3734	1.04	0.05	1	1.15	0.45	1
0.19	1		1.27	0.46	0	1.3	0.89	0
0.19	n/a		1.37	0.65	0	1.96	0.72	0
0.25	0		1.88	0.27	0	2.29	0.89	0
0.07	1		1.35	0.41	1	1.29	0.24	0
0.08	1		1.29	0.28	0	2.01	0.63	0
0.03	1		1.81	0.55	1	1.51	0.7	1
0.08	1	b1067	1.27	0.19	1	1.57	0.46	0
0.1	1	b3413	1.14	0.24	0	1.22	0.65	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1	b3464	0.93	0.22	1	0.65	0.24	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.22	1	b3418	1.08	0.36	1	0.7	0.24	1
0.23	1	b3428	1.98	0.97	1	1.5	0.87	1
0.28	1	b3466	1	0.92	0	1.98	0.77	0
0.16	1		2.24	1.09	0	2.04	0.9	1
0.74	n/a		1.4	0.79	0	1.93	0.48	0
0.09	1	b3452	1.8	0.51	0	1.76	0.51	0
0.29	1	b4365	1.47	0.68	0	1.49	0.41	0
0.19	1		1.04	0.45	0	1.24	0.48	0
0.08	1		1.15	1.36	0	1.16	0.72	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0

	0.1	1		1.7	0.49	0	1.99	0.71	0
	0.18	1		1.25	0.25	0	1.6	0.35	0
	0.16	1 b2730		1.18	0.65	0	1.54	0.49	0
	0.11	1 b2744		1.13	0.5	0	1.51	0.44	0
	0.07	1 b0859		0.9	0.41	0	1.65	0.64	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.07	1		0.46	0.34	1	0.36	0.77	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	n/a b2468		1.58	0.34	0	1.52	0.71	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.07	1 b0913		0.97	0.66	0	1.44	0.68	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1 b1516		1.23	0.55	0	1.12	0.87	0
	0.14	1 b3956		0.97	0.46	0	1	0.41	1
	0.09	1		1.55	0.26	0	1.52	0.37	0
	0.12	1 b0854		1.04	0.44	0	1.79	0.42	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1 b2515		0.79	0.41	1	1.17	0.4	0
	0.14	1		1.54	0.39	0	1.21	2.25	0
	0.14	1 b0892		0.96	0.57	0	0.88	0.34	1
	0.05	1		1.36	0.36	0	1.3	0.72	0
	0.05	1		1.05	0.24	0	1.44	0.36	0
	0.12	1 b2217		0.81	0.38	0	0.88	0.72	1
	0.1	1 b4330		1.32	0.53	0	1.99	0.42	0
	0.11	1		1.57	1.11	0	1.62	0.74	0
	0.17	1 b2299		0.74	0.48	1	0.85	0.29	1
	0.08	1 b1922		1.24	0.38	1	0.95	0.36	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.13	1 b1065		1.68	0.52	0	1.87	0.33	0
	0.13	1		1.72	0.46	0	1.6	0.65	0
	0.14	1 b4186		1.37	32.43	0	1.94	0.5	0
	0.16	1		6.01	3.23	1	2.13	1.73	0
	0.09	1 b1635		1.52	0.94	0	1.53	1.02	0
	0.3	0 b1957		1.5	0.57	0	1.69	0.7	0
	0.14	1 b2014		0.56	0.28	1	1	0.53	1
	0.09	n/a b2249		0.88	0.43	0	1.65	0.51	0
	0.15	1 b2288		0.62	0.19	1	0.52	0.44	1
	0.13	1		1.16	0.49	0	1.23	0.65	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.12	1		0.83	0.37	0	1.31	0.37	0
	0.16	1 b2320		0.48	0.26	1	0.79	0.31	1
	0.09	1		1.83	0.38	0	1.67	0.33	0
	0.02	1 b1603		0.6	0.74	1	0.63	0.56	1
	0.19	1 b0237		0.66	0.14	1	0.46	0.48	1
	0.1	1		0.98	0.31	0	1.41	0.31	1
	0.18	1		0.62	0.07	1	0.45	0.56	1
	0.11	1		1.78	0.44	1	1.27	2.57	1
	0.1	1 b1748		0.9	0.27	0	1.2	0.5	0
	0.09	1 b1713		0.84	0.3	1	0.63	0.48	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.06	1 b2103		1.36	0.62	0	1.69	0.68	0
	0.06	1 b1609		1.09	0.35	0	1.2	3.34	0

	0.07	1		1.52	0.47	0	1.47	0.68	0
	0.11	1		0.74	0.42	0	1.48	0.88	0
	0.06	1		1.61	0.49	0	1.88	3.19	0
	0.09	1 b0172		0.64	0.28	1	0.44	0.37	1
	0.13	1 b1951		1.52	0.22	0	1.73	0.39	0
	0.09	1 b2379		0.72	0.26	1	1.43	0.75	0
	0.17	1 b2277		0.5	0.06	1	0.72	0.75	1
	0.08	1 b1702		0.22	0.14	1	0.13	0.24	1
	0.23	1		0.76	0.31	1	0.65	0.59	1
	0.1	1		1.53	0.34	0	1.56	0.5	0
	0.1	1 b0491		1.13	0.62	0	1.75	0.61	0
	0.27	1 b3866		0.76	0.31	0	0.78	0.31	1
	0.19	1 b4160		1.06	0.19	1	0.92	0.49	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.14	1 b3033		1.25	2.05	0	1.47	0.42	0
	0.18	1 b3451		1.07	0.31	0	1.53	0.98	0
	0.13	1 b3172		1.02	0.37	0	1.73	0.6	0
	0.09	1 b2302		1.15	0.55	0	1.73	0.69	0
	0.04	1		1.26	0.4	0	1.97	1.07	0
	0.06	1 b4206		1.31	0.34	1	1.38	0.39	0
	0.05	1 b4264		0.91	0.62	0	1.25	0.24	0
	0.11	1 b2663		1.4	0.61	0	1.82	0.74	0
	0.1	1 b4327		1.25	0.46	0	1.21	0.19	0
	0.1	1		1.42	1.04	0	2.08	0.84	0
	0.15	0		1.2	0.64	0	1.63	0.6	0
n/a	n/a	b3131	n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1 b3942		48.5	19.75	1	39.16	18.43	1
	0.12	1 b1812		1.02	0.2	0	1.57	0.4	0
	0.21	1		0.74	0.16	1	0.82	0.8	1
	0.09	1 b3886		1.14	0.47	0	1.68	0.62	0
	0.26	1		1.36	1.82	0	1.39	0.82	0
	0.13	1 b3288		2.28	0.47	1	1.62	0.51	1
	0.1	1		1.51	0.69	0	2.29	0.92	0
	0.12	1 b3963		1.11	0.34	0	1.8	0.97	0
	0.08	1		1.78	0.25	0	1.86	0.65	0
	0.08	0 b0721		0.45	0.14	1	0.77	0.58	1
	0.11	1 b0907		0.59	0.71	1	0.87	0.28	1
	0.06	1		1.52	0.58	0	1.32	0.48	0
	0.14	1 b3366		1	0.53	0	1.57	0.7	0
	0.26	1 b3993		1.52	0.44	0	1.71	0.64	0
	0.12	1 b3458		1.18	0.16	0	1.84	0.67	0
	0.27 n/a			1.58	0.22	0	2.21	0.79	0
	0.06	1		1.17	0.44	0	1.45	0.39	0
	0.04	0 b1071		1.68	0.31	0	1.57	0.28	0
	0.23	1 b3253		1	0.32	1	0.92	0.29	1
	0.23	1		0.95	0.87	0	1.41	0.45	0
	0.27	0		1.94	0.82	0	1.73	0.67	0
	0.25 n/a			4.56	1.89	1	2.2	1.28	1
	0.09	1 b3880		1.53	0.33	0	1.26	0.21	1
	0.07 n/a			1.49	0.58	0	1.69	0.4	0
	0.09	1		1.2	0.38	0	1.13	0.78	0

0.1	1	1.6	0.45	0	1.4	1.43	0
0.11	1 b4122	1.64	0.47	0	1.07	1.13	1
0.07	n/a b1897	1.27	0.5	0	1.42	0.47	0
0.05	1 b2502	0.98	0.82	0	1.42	0.45	0
0.08	1 b4060	1.26	0.78	0	2.07	1.16	0
0.06	1 b2603	1.13	0.37	0	1.43	0.42	0
0.04	1	1.79	0.39	0	1.93	0.53	0
0.07	1 b3673	0.79	0.17	0	1.83	1.07	0
0.22	1 b3833	0.63	0.33	1	1	0.55	1
0.2	1	1.12	0.21	0	1.46	0.79	0
0.09	1	1.92	0.61	1	1.86	1.17	0
0.15	0 b2347	1.35	0.46	0	2.14	1.08	0
0.09	0 b1174	1.06	0.27	1	0.95	0.67	1
0.09	1 b1253	1.08	0.52	0	1.46	0.62	0
0.14	1 b2808	1.19	0.39	0	1.13	0.51	1
0.12	1	1.38	0.55	0	2.13	0.44	0
0.19	1	0.99	0.52	0	1.51	0.44	0
0.06	1 b0578	0.8	0.16	1	0.83	0.28	1
0.13	1 b3931	0.95	0.12	1	0.67	0.36	1
0.13	1	1.7	0.86	0	1.8	0.79	0
0.16	1 b3821	0.68	0.6	0	0.9	0.38	1
0.12	1 b3793	1.1	0.39	0	1.1	0.74	0
0.25	1	1.48	0.53	0	1.63	1.31	0
0.11	1	1.1	46.4	0	1.17	0.49	0
0.17	1 b2790	1.05	0.25	1	1.2	0.47	1
0.13	1	0.97	0.2	0	1.42	0.57	0
0.17	1 b3838	0.52	0.33	1	0.6	0.35	1
0.1	1 b0506	0.95	0.26	1	1.01	0.72	1
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.06	1	1.24	0.28	0	1.25	0.5	1
0.06	1	0.82	0.52	0	1.2	0.66	1
0.04	1	1.64	0.69	0	1.78	0.54	0
0.1	n/a	1.21	0.32	0	1.52	0.37	0
0.09	1 b1439	0.72	0.24	1	1.11	0.33	1
0.16	1	1.41	0.39	0	1.44	0.39	0
0.06	1	1.58	0.19	0	1.96	0.55	0
0.12	1 b1860	1.02	0.23	0	1.2	0.87	0
0.09	1 b0478	1.17	0.7	0	1.44	0.85	0
0.08	1	1.28	0.46	0	1.52	0.57	0
0.06	1	1.12	0.38	0	1.56	0.81	0
0.14	1 b0600	1.82	0.38	0	1.34	0.45	0
0.11	1 b0594	4.63	3.05	1	1.97	0.43	0
0.17	1	1.32	0.75	0	1.22	0.39	1
0.05	1 b1238	0.8	0.69	1	1.07	0.71	0
0.11	1	1.49	0.41	0	1.41	2.05	0
0.13	1 b1413	1.35	0.33	1	1.05	0.64	1
0.2	0	1.54	0.61	0	1.71	0.67	0
0.25	0	1.29	0.44	0	2.14	0.57	0
0.22	1	2.3	0.3	1	1.69	0.76	1
0.17	1	1.64	0.62	1	1.14	0.65	0
0.11	1	1.57	0.53	0	2.33	0.86	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0

0.1	1	b0447	2.29	0.23	1	1.94	1.01	0
0.19	1	b2948	0.79	0.4	0	0.92	0.26	1
0.12	1	b3603	1.19	0.95	0	1.47	0.42	0
0.17	1	b3685	1.61	0.37	0	1.48	1.04	0
0.09	1	b2819	1.58	0.44	1	1.07	0.36	1
0.11	1		1.2	0.35	0	1.48	0.36	0
0.16	1		1.45	0.22	1	1.84	1.22	1
0.13	1	b3525	0.87	0.41	0	1.33	0.29	0
0.13	1		0.84	0.2	1	1.26	0.37	1
0.03	1	b3590	1.29	0.46	0	1.56	0.47	0
0.28	1	b3638	0.76	0.46	0	0.86	0.66	1
0.2	1		1.25	0.32	0	1.9	0.46	0
0.09	1	b0696	1.56	0.3	0	1.59	0.3	0
0.21	1		1.16	0.73	0	1.63	0.6	0
0.3	1	b2684	0.31	0.18	1	0.33	0.46	1
0.08	1	b2078	1.47	0.34	0	1.43	0.5	0
0.08	1	b2177	1	0.42	0	1.21	0.32	1
0.13	1	b2044	1.43	0.39	0	1.55	0.42	0
0.05	1	b2131	1.22	0.9	0	1.91	0.6	0
0.09	0		1.3	0.6	0	1.64	0.62	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.14	1		1.21	0.36	0	1.57	0.46	0
0.1	1	b0869	0.79	0.38	0	1.02	0.44	1
0.13	1	b3549	1.09	0.17	0	0.71	1.25	1
0.27	1		1.15	1.04	0	1.83	0.63	0
0.16	1	b3576	1.33	0.66	0	1.5	0.54	0
0.07	1	b3472	0.53	0.06	1	0.65	0.44	1
0.11	1	b3225	1.5	0.16	1	1.63	0.52	0
0.2	1	b3109	1.14	0.52	0	1.61	0.56	0
0.15	1		1.07	0.31	0	1.66	0.95	0
0.15	1	b2724	1.76	0.64	0	1.74	1.33	0
0.19	1	b3055	0.8	0.16	1	0.51	1.45	1
0.14	1		0.71	0.88	0	1.14	0.74	1
0.17	1		1.31	0.27	0	2.27	0.64	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.14	1	b0817	0.92	0.32	0	1.32	0.53	0
0.11	1		1.4	0.65	1	1.22	0.2	0
0.18	1	b0755	2.24	0.55	1	2.39	1.05	1
0.06	1	b0793	1.17	0.25	0	1.18	0.37	0
0.1	n/a		1.03	0.32	0	1.52	0.66	0
0.22	1	b3198	1.16	0.19	0	1.57	1.14	1
0.08	1	b1942	1.13	0.32	0	1.12	0.51	1
0.17	1	b2989	1.33	0.33	1	1.31	0.64	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.11	1		1.02	0.32	0	1.67	0.75	0
0.14	1	b0427	0.77	0.15	1	1.11	0.7	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.15	1		1.21	0.28	0	1.93	0.78	0
0.23	n/a		1.37	0.42	0	1.53	0.6	0
0.18	n/a		1.09	0.84	0	1.47	0.33	0

	0.09	1		0.62	0.14	1	0.37	3.53	1
	0.18	1	b0580	0.73	0.17	1	1.03	0.97	1
	0.06	1		1.28	0.08	0	1.12	0.42	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.12	1	b2236	1.17	0.15	0	1.74	0.72	0
	0.1	1	b2998	1.47	0.55	0	1.38	0.41	0
	0.12	1		1.65	0.38	0	1.5	0.66	0
	0.15	1	b0607	1.93	0.52	1	1.94	1.05	1
	0.18	1		1.76	0.69	0	1.71	0.59	0
	0.08	1	b3616	0.67	0.11	1	0.5	1.07	1
	0.27	1		1.22	0.25	0	1.69	0.44	0
	0.26	1	b3686	3.66	1.39	1	4.6	2.27	1
	0.27	1	b3688	1.19	0.16	0	1.25	0.75	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.29	0		1.1	0.82	0	1.7	0.79	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.25	1		1.72	0.67	0	1.73	0.73	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.28	0	b1622	1.96	1.03	0	1.47	0.93	0
	0.13	1	b0802	3.78	2.5	1	2.92	1.62	1
	0.17	1		0.92	0.44	0	1.01	0.39	0
	0.21	1		1.26	3.27	0	1.29	0.43	0
	0.13	1	b2304	1.32	0.47	0	1.32	0.47	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.16	1		0.83	0.17	1	0.97	0.55	1
	0.15	n/a	b2309	0.61	0.16	1	0.97	0.5	1
	0.19	n/a	b2406	0.98	0.27	0	1.49	0.27	0
	0.13	n/a	b2465	0.71	0.11	1	0.95	0.47	1
	0.06	n/a	b2470	1.43	0.2	1	1.15	0.75	1
	0.1	n/a		0.09	0.03	1	0.23	0.15	1
	0.14	1		1.14	0.4	0	1.12	0.48	1
	0.16	0		1.84	0.55	0	1.73	1.26	0
	0.1	1		1.21	0.26	0	1.06	1.4	1
	0.1	1		1.18	0.36	0	1.21	0.87	0
	0.07	1		1.79	0.84	0	2.4	1.14	0
	0.11	n/a		1.74	0.48	0	1.49	0.83	0
	0.1	1	b0739	0.68	0.1	1	0.88	0.68	1
	0.14	n/a		2.9	2.26	1	4.65	1.37	1
	0.11	1		1.15	0.21	0	1.39	0.62	0
	0.09	1		1.31	0.39	0	1.25	0.41	0
	0.19	1		1.24	0.49	0	1.55	0.34	0
	0.25	1		1.15	0.15	0	1.73	0.78	0

0.11	1		1.38	0.19	1	1.2	0.63	1
0.12	n/a		1.26	0.39	0	1.3	0.38	0
0.09	1		1.51	0.28	0	1.59	0.52	0
0.2	1		1.27	0.18	0	1.54	0.63	0
0.15	1		1.82	0.55	0	1.32	0.65	0
0.07	1		1.07	1.47	0	1.24	0.62	0
0.07	n/a		1.15	3.23	0	1.98	0.59	0
0.12	1		1.53	0.61	0	1.45	1.2	0
0.09	1		1.51	1.25	0	1.69	0.87	0
0.12	1		1.5	0.79	0	2.28	1.4	0
0.21	0		1.52	0.3	0	1.44	0.75	0
0.08	1		1.05	0.39	0	1.4	0.83	0
0.08	n/a		1.29	0.42	0	1.36	0.72	0
0.11	1		1.43	0.24	0	1.59	0.57	1
0.15	1		1.45	0.41	1	1.77	0.77	1
0.19	1		1.09	0.24	1	0.89	0.6	1
0.17	1		1.29	0.43	0	1.84	0.54	0
0.19	1		1.3	0.25	0	1.32	0.46	1
0.28	1		1.6	0.26	0	1.7	0.88	0
0.21	1		0.97	0.14	1	0.62	0.32	1
0.21	1		2.77	0.41	1	1.9	1.06	1
0.2	1		1.07	0.07	1	1.09	0.57	1
0.18	1		1.4	0.35	0	1.72	0.33	0
0.19	1	b3689	0.95	0.44	0	1.42	0.55	1
0.21	1	b3697	1.16	0.38	0	1.27	0.43	1
0.12	1	b3725	0.93	0.3	0	0.82	0.39	1
0.21	1	b3669	1.47	0.37	0	1.54	0.6	0
0.29	1	b3184	1.06	0.58	0	1.35	0.44	0
0.16	n/a	b3223	2.15	0.6	0	1.64	0.67	0
0.14	1	b3200	0.84	0.43	1	0.4	0.34	1
0.12	1		1.67	0.41	0	1.72	0.62	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1		1.48	0.57	0	1.3	0.62	0
0.02	1	b0677	18.07	8.32	1	7.98	4.23	1
0.07	n/a	b0697	1.51	0.34	0	1.62	0.54	0
0.06	1	b1533	1.62	0.48	0	1.92	0.59	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.13	1	b3704	0.29	0.78	1	0.47	0.44	1
0.08	n/a		1.33	0.24	0	1.72	0.63	0
0.27	1	b0013	1.29	0.22	0	1.88	0.5	0
0.12	1		1.45	0.58	0	1.92	0.38	0
0.23	0	b2573	1.19	0.3	0	1.9	0.94	0
0.13	1	b3752	0.87	0.1	1	1.1	0.77	1
0.19	1		1.1	0.33	0	1.95	0.65	0
0.07	1	b0084	1.29	0.34	0	1.54	0.77	0
0.23	1		1.88	0.76	0	1.62	0.64	0
0.1	1	b3262	1.32	0.51	0	1.82	0.59	0
0.04	1		1.28	0.18	0	2.03	0.59	0
0.23	1	b3343	0.86	0.55	0	0.99	0.59	0
0.12	1	b1099	1.19	0.5	0	1.52	0.42	0
0.03	1	b1128	1.07	0.41	0	0.76	0.37	1
0.07	0	b1795	1.88	0.85	0	2.22	1.11	0

	0.06	1	b2046	1.3	0.36	0	1.63	0.37	0
	0.07	1	b3391	1.61	0.79	0	1.41	0.48	0
	0.05	1	b1134	1.15	0.46	0	0.94	0.36	1
	0.07	1		1.58	0.6	0	2.11	0.7	0
	0.07	1	b2049	1.53	0.43	0	1.49	0.35	0
	0.09	1		1.55	0.53	0	2.13	0.7	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.19	1	b1779	0.46	0.13	1	0.19	0.09	1
	0.12	1	b2067	0.96	0.34	0	1.71	0.43	0
	0.13	1	b0009	1.2	0.31	0	1.33	0.47	0
	0.11	1		1.73	0.81	0	1.34	0.82	0
	0.13	1		1.01	0.43	0	1.61	0.36	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.09	n/a	b4074	1.88	0.66	0	1.72	0.73	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	1	b2389	1.31	0.93	0	1.77	0.56	0
	0.08	1	b2433	1.07	0.49	0	1.23	0.61	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	1		1.24	0.19	0	1.37	0.54	0
	0.07	1		0.98	0.59	0	1.24	0.62	0
	0.18	1		1.34	0.13	0	1.45	0.64	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.26	0	b2726	1.75	0.21	0	1.72	0.61	0
	0.1	1		1.61	0.44	0	1.85	0.53	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.16	1	b2464	1.09	0.76	0	0.9	0.91	1
	0.12	1	b0888	1.97	0.71	1	0.82	0.29	1
	0.07	1	b0918	1.15	0.29	0	1.28	0.48	0
	0.06	1	b0905	1.06	0.36	0	1.2	0.51	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.35	0	b4217	1.29	0.76	0	2.14	0.95	0
	0.08	1	b2240	1.48	0.25	1	0.71	0.21	1
	0.1	0		1.72	0.67	0	1.29	1.05	0
	0.07	1	b1890	1.66	0.52	0	1.34	0.88	0
	0.22	1		0.96	0.25	0	0.85	0.53	1
	0.1	1	b1118	1	31.77	0	1.21	0.52	0
	0.12	1	b1662	0.98	0.39	0	1.04	0.28	1
	0.1 n/a		b1135	0.82	0.45	0	0.7	0.43	1
	0.14	1		1.56	0.3	0	1.68	0.92	0
	0.11	1	b1955	1.24	0.56	0	1.56	1.09	0
	0.2	0	b1724	1.49	0.55	0	1.49	0.4	0
	0.14	1	b4179	1.54	0.18	1	1.07	0.49	1
	0.07	1	b4211	1.59	0.23	0	1.99	1.4	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.24	1		1.99	0.5	0	2.2	0.71	0
	0.13	1		1.47	0.39	0	1.62	0.55	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.05	1		2.21	0.77	1	1.36	0.29	0



	0.12	1 b1891	1.4	0.61	0	1.96	1.31	0
	0.07	1	1.62	0.32	0	1.78	0.54	0
	0.14	1 b2459	1.78	0.73	0	1.55	0.76	0
	0.12	1 b2587	1.12	0.13	0	1.19	0.24	1
	0.07	1	1.73	0.9	0	1.88	1	0
	0.13	1	1.23	0.17	0	1.85	0.78	0
	0.07	1 b4024	1	0.35	0	1.29	0.48	0
	0.12	1 b2688	0.93	0.18	1	0.67	0.45	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.12	1 b1948	1.18	0.74	0	1.16	0.66	0
	0.1	1	0.8	0.4	1	0.61	0.47	1
	0.07	1 b1879	1.18	0.31	0	1.12	0.34	0
	0.18	1	1.2	0.21	1	0.89	0.19	1
	0.18	1 b3748	1.56	0.97	0	2.25	0.21	0
	0.11	1 b0170	0.52	0.07	1	0.19	0.06	1
	0.12	0 b0384	1.71	0.44	0	1.84	0.58	0
	0.09	1 b4022	0.69	0.29	0	0.64	0.4	1
	0.07	1	1.45	0.52	0	1.59	1.09	0
	0.06	1 b1741	2.14	1.96	0	1.86	1.02	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b1623	0.68	0.29	1	0.85	0.58	1
	0.08 n/a		2.09	0.69	0	2	1.39	0
	0.05	1	1.37	0.81	0	2.01	0.68	0
	0.11	1 b0529	1.09	0.36	0	1.33	0.63	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1 b4379	1.72	0.74	0	2.36	2.09	0
	0.17	1 b3609	0.68	0.11	1	0.41	2.13	1
	0.1	1 b3412	1.58	0.69	0	1.63	0.39	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.15	0 b1213	1.12	0.52	0	2.31	0.92	0
	0.06	1 b0503	1.39	0.28	0	1.19	0.23	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1 b4210	1.94	2.43	0	1.81	0.86	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1	1.44	0.45	0	1.71	0.6	0
	0.13	1 b3058	0.89	0.29	0	1.1	0.39	1
	0.08	1 b3429	2.01	0.33	0	1.64	0.69	0
	0.14	1 b3646	0.93	0.38	0	2.46	0.95	0
	0.07	1	1.74	0.59	0	1.91	0.34	0
	0.08	1 b1101	1.41	0.37	1	1.16	0.35	1
	0.16	1 b3865	0.89	0.22	0	1.06	0.49	1
	0.05	1	30.91	4.64	1	28.14	7.32	1
	0.04	1 b0781	1.32	0.32	0	1.32	0.82	0
	0.11	1	1.4	0.53	0	2.02	0.63	0
	0.11	1 b2437	1.12	0.94	0	1.34	0.62	0
	0.1	1	1.79	0.35	0	0.97	0.15	1
	0.1	1 b0637	0.57	0.27	1	1.11	1.53	1
	0.14	1	1.92	0.54	0	1.89	1.46	0
	0.04	1 b2021	0.88	0.46	0	1.3	0.33	1
	0.07	1 b1290	1.08	0.44	0	1.43	0.46	0
	0.06	1 b0385	1.77	0.55	0	1.89	0.47	0

0.13	0	1.36	0.67	0	1.63	2.88	0
0.06	n/a	1.34	0.31	0	1.24	0.57	0
0.05	1 b0660	0.44	0.37	1	0.52	0.43	1
0.09	1 b4108	0.58	0.32	0	1.14	0.52	1
0.03	1 b1875	0.96	0.2	0	1.36	0.46	0
0.1	1	1.57	0.45	0	2.02	0.75	0
0.19	1	1.5	0.26	0	1.88	0.56	0
0.12	1	2.26	0.97	0	1.8	0.62	0
0.16	1	1.24	0.45	0	1.51	0.87	0
0.17	1 b3733	0.38	0.09	1	0.11	0.05	1
0.07	1	1.32	0.32	1	0.35	0.19	1
0.07	1 b0789	1.21	0.53	0	1.49	0.87	0
0.06	1 b0413	1.58	0.32	1	1.32	0.37	1
0.1	1 b3908	4.29	0.92	1	2.55	2.74	1
0.07	1	2	0.37	0	2.1	0.59	0
0.1	1 b1304	1.11	0.72	0	1.15	0.91	1
0.07	1 b2614	1	0.49	0	1	0.34	1
0.08	1 b3303	0.4	0.04	1	0.2	0.34	1
0.15	1 b3632	0.81	0.21	1	0.71	0.27	1
0.07	1 b3850	1	0.32	1	1.06	0.44	1
0.08	1 b2569	0.61	0.25	1	0.69	0.25	1
0.05	1	1.21	0.21	0	1.2	0.56	1
0.09	1 b3783	0.66	0.1	1	0.46	0.15	1
0.14	1 b1946	1.31	0.28	0	1.15	0.62	0
0.04	1	0.27	0.05	1	0.41	1.29	1
0.08	1 b2329	0.64	0.26	0	0.79	0.23	1
0.07	1 b2284	0.5	0.08	1	0.26	0.19	1
0.07	1 b3642	0.78	0.32	0	0.99	0.34	1
0.13	1	1.3	0.36	0	1.12	0.8	1
0.09	1	1.34	0.64	0	1.29	0.68	0
0.2	1 b3903	1.56	0.52	0	1.76	0.37	0
0.11	0 b3836	0.68	0.73	1	0.54	0.32	1
0.14	1 b3019	0.65	0.6	0	0.93	0.37	1
0.06	1 b2393	1.23	0.33	0	1.23	0.38	0
0.07	1 b3767	1.38	0.4	0	1.49	0.43	0
0.09	1 b0061	1.52	0.58	0	1.8	0.27	0
0.1	n/a	1.05	0.71	0	1.78	0.81	0
0.08	1	1.62	0.5	0	2.21	0.78	0
0.07	1	1.4	0.54	0	1.73	0.4	0
0.07	1 b0514	1.66	0.6	0	1.55	0.74	0
0.1	n/a	2.64	0.86	1	1.6	1.33	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.04	1	1.26	0.47	0	1.62	0.57	0
0.07	1 b1274	0.88	0.21	1	0.57	0.42	1
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.04	1 b1804	1.24	0.54	0	1.33	1	0
0.06	1 b1380	1.57	0.36	0	1.43	0.52	0
0.07	1	1.54	0.65	0	1.7	0.83	0
0.09	1	1.31	0.38	0	1.42	0.29	0
0.07	1 b1861	0.68	0.48	0	1.32	0.34	0
0.08	1 b0523	0.65	0.25	0	1.01	0.34	1
0.06	1	0.89	0.32	0	0.99	0.39	1

	0.05	1 b1344	0.64	0.17	0	1.27	0.47	0
	0.07	1	2.65	0.6	1	2.09	0.77	1
	0.04	1	1.36	0.44	0	1.3	0.81	0
	0.79	0 b1219	1	0.19	0	1.31	0.54	0
	0.07	1 b1433	1.26	0.37	0	1.94	0.48	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b1863	1	0.4	0	1.21	0.56	0
	0.12	1	1.3	0.25	0	2.24	2.74	0
	0.09	1 b2812	0.87	0.26	0	1.22	0.34	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.16	n/a	2.16	1.17	0	1.76	0.59	0
	0.15	1 b3780	0.79	0.41	0	1.53	0.77	0
	0.17	1 b3565	1.22	0.31	0	1.05	0.21	1
	0.03	n/a	0.73	0.34	1	0.52	0.46	1
	0.11	1 b2794	1.06	0.12	0	1.54	0.41	0
	0.12	1 b2619	1.27	0.54	1	1.14	0.3	1
	0.09	1 b2903	0.4	0.1	1	0.15	0.22	1
	0.09	1 b2957	0.77	0.09	1	0.27	1.09	1
	0.04	1 b3967	0.86	0.08	1	0.7	0.38	1
	0.1	1 b2960	0.55	0.22	1	0.69	0.21	1
	0.08	n/a	1.37	0.37	0	1.52	0.56	0
	0.09	n/a b2171	0.45	0.25	1	0.43	0.18	1
	0.1	0 b2667	1.76	0.37	0	1.4	0.62	0
	0.06	1 b1303	1.32	0.16	0	1.61	0.47	0
	0.11	1 b2889	1.01	0.46	0	1.49	0.39	0
	0.03	1 b0328	1.58	0.2	0	2.43	1.1	0
	0.2	1	1.41	0.45	0	1.34	0.3	0
	0.09	1 b2158	1.42	0.93	0	2.02	0.86	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.06	1 b2126	0.93	0.24	0	1.43	0.41	0
	0.09	1 b2154	0.36	0.11	1	0.53	0.34	1
	0.08	1 b2050	1.48	0.46	0	1.52	0.7	0
	0.05	1 b2130	1.3	0.18	0	1.79	0.44	0
	0.39	1 b3605	1.65	0.31	0	1.55	0.68	0
	0.09	1 b3320	0.27	0.05	1	0.1	0.05	1
	0.08	1 b4169	1.06	0.28	1	1.39	0.27	0
	0.12	1 b3313	0.3	0.08	1	0.17	0.04	1
	0.09	1	1	0.05	1	1.18	0.3	1
	0.09	1 b4190	1.13	0.35	0	1.4	0.21	0
	0.08	1	1.33	0.49	0	1.34	0.56	0
	0.17	1 b4146	0.66	0.21	1	1.1	0.46	1
	0.08	1 b2123	1.26	0.7	0	2.03	0.62	0
	0.07	1 b0657	0.8	0.5	0	1.28	0.2	1
	0.13	1 b2944	1.06	0.23	0	1.84	0.56	0
	0.05	1 b0962	0.95	0.15	0	1.1	0.68	1
	0.21	1 b0763	1.81	0.46	0	1.64	0.52	0
	0.06	1 b0830	1.62	0.32	1	1.54	0.26	1
	0.07	1 b3205	0.8	0.12	1	0.43	0.21	1
	0.04	1 b0772	0.56	0.27	1	0.7	0.28	1
	0.07	1 b0807	1.39	0.58	0	1.68	0.19	0
	0.15	1 b2904	0.2	0.05	1	0.1	0.06	1

	0.07	1	b0214	0.88	0.24	0	1.37	0.33	1
	0.08	1	b3087	0.85	0.24	0	1.17	0.55	0
	0.07	1		1.6	0.4	0	1.68	0.66	0
	0.12	1	b0796	1.01	0.69	0	1.24	0.5	1
	0.06	1	b0842	1.22	0.25	0	1.21	0.47	1
	0.14	1		1.32	0.46	0	2.11	1.09	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.09	1		1.35	0.18	1	1.42	0.28	1
	0.18	0		1.83	0.4	0	1.81	0.33	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.17	1	b4026	1.55	0.19	0	1.98	0.82	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.11	1	b4012	1.24	0.1	1	1.03	0.47	1
	0.05	1		1.37	0.2	0	1.43	0.39	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.13	1		1.34	0.46	0	1.58	0.55	0
	0.1	1	b3165	0.38	0.08	1	0.46	0.13	1
	0.14	1	b2897	0.95	0.53	1	0.82	0.19	1
	0.06	1		1.11	2	0	2.08	0.77	0
	0.05	1	b1447	1.74	0.53	0	1.85	0.89	0
	0.06	1		0.97	0.27	0	1.27	0.26	1
	0.06	1		1.33	1.71	0	1.29	0.59	0
	0.08	1	b3267	1.11	0.23	0	1.38	0.53	0
	0.15	1	b0044	1.28	0.34	0	1.64	0.76	0
	0.07	1	b1586	1.31	0.56	0	1.53	0.27	1
	0.22	1	b2553	0.83	0.17	0	0.97	0.32	1
	0.08	n/a		1.5	0.41	0	1.58	0.51	0
	0.12	1		1.32	0.38	0	1.64	0.4	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.07	1	b2495	0.81	0.11	1	1.16	0.21	1
	0.13	1	b2525	0.54	0.13	1	0.55	0.16	1
	0.12	1		1.35	0.25	0	1.44	0.47	0
	0.19	1	b0631	1.06	0.15	1	1.3	0.45	1
	0.1	1	b2258	1.05	0.18	1	1.02	0.32	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.1	n/a		2.39	1.28	0	1.75	0.73	0
	0.13	0		1.89	0.61	0	1.97	1.03	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.09	n/a	b0463	0.45	0.05	1	0.45	0.15	1
	0.08	n/a	b0484	2.85	0.57	1	1.36	0.55	1
	0.05	n/a		1.24	0.15	0	1.72	0.53	0
	0.16	n/a		1.43	0.27	0	1.15	0.28	1
	0.09	n/a		0.84	0.35	1	1.32	1.5	1
	0.11	1	b1113	0.66	0.27	1	1.13	0.15	1

0.05	1		1.53	0.17	0	1.44	0.51	0
0.09	1		1.15	0.6	0	1.33	0.56	0
0.03	1		1.55	0.81	0	1.28	0.62	0
0.07	0		1.42	0.45	0	1.45	0.72	0
0.03	1		1.51	0.5	0	2	0.75	0
0.06	1		1.34	0.34	0	1.3	0.54	0
0.06	1		1.33	0.44	0	1.68	0.94	0
0.08	1		1.38	0.22	0	1.23	0.39	1
0.1	1		1.58	0.44	0	1.71	0.85	0
0.06	n/a		1.54	0.26	0	1.75	0.37	0
0.09	n/a		1.51	0.44	0	2.15	0.76	0
0.05	1		1.36	0.39	0	1.67	7.99	0
0.08	1		1.15	0.79	0	1.17	0.4	1
0.06	1		1.45	0.23	0	1.84	0.36	0
0.03	n/a		1.33	0.38	0	1.47	0.41	0
0.04	1		1.59	0.34	0	1.58	1.4	0
0.05	1		1.29	0.29	0	1.71	0.62	0
0.08	1		1.42	0.26	0	1.13	0.59	0
0.14	1		1.35	0.36	0	2.06	0.82	0
0.06	1		1.22	0.29	0	1.59	0.43	0
0.1	1		1.74	0.4	0	1.46	0.41	0
0.1	1		1.74	0.68	0	1.64	0.79	0
0.08	1		1.76	0.25	1	1.2	0.51	1
0.08	1		1.49	0.4	0	1.66	0.42	0
0.06	1		1.88	0.37	1	1.12	1.07	1
0.05	1		1.07	0.15	1	0.65	0.23	1
0.05	1		1.3	0.48	0	1.5	0.73	0
0.09	1		1.39	0.45	0	1.37	0.31	0
0.12	1		1.51	0.49	0	1.36	0.33	0
0.09	1		1.54	0.34	0	1.85	0.54	0
0.12	1		2.17	0.5	1	0.95	0.41	1
0.13	n/a		1.18	0.16	0	1.27	0.53	1
0.05	1		1.31	0.26	0	1.3	0.6	1
0.08	1		1.23	0.61	0	1.57	0.62	0
0.1	1		1.26	0.27	0	1.57	0.9	1
0.11	1	b2891	0.52	0.07	1	0.24	0.19	1
0.07	1		1.65	0.31	0	1.19	0.48	1
0.13	1		1.04	2.23	0	1.04	0.42	1
0.1	1		1.54	0.41	0	1.14	0.42	1
0.14	1	b0085	1.4	0.38	1	1.05	1.06	1
0.1	1	b0118	0.62	0.13	1	0.36	0.24	1
0.09	1		1.39	0.29	0	1.58	0.37	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1	b0152	1.39	1.91	0	2.21	0.69	0
0.08	1	b0186	1.27	0.4	0	1.32	0.68	1
0.03	1		1.15	0.45	0	1.45	0.75	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.37	0	b0687	0.37	0.26	1	0.45	0.42	1
0.08	1	b1929	1.31	0.1	0	1.6	0.75	0
0.21	1	b3620	1.2	0.17	0	1.2	0.69	1
0.05	1		1.13	0.57	0	1.47	6.07	0
0.09	1	b1262	1.28	0.18	0	1.54	0.64	0

	0.1	1		1.14	0.42	0	1.56	0.73	0
	0.07	1 b3724		0.75	0.17	1	0.89	0.29	1
	0.18	1		1.78	0.4	0	1.39	18.24	0
	0.08	1 b2961		0.9	0.52	0	1.02	0.75	1
	0.23	0 b3194		1.57	0.29	0	1.36	0.7	0
	0.17	1 b3233		1.5	0.62	1	1.17	0.46	1
	0.1	1 b0627		1.73	0.51	0	1.53	0.69	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.16	0 b1050		1.55	0.48	0	1.54	0.85	0
	0.15	0 b3400		1.4	0.74	0	1.01	1.07	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.12	1 b3439		2.06	0.83	0	1.79	0.86	0
	0.09	1 b4359		0.84	0.27	0	1.21	0.67	1
	0.19	1 b1102		1.4	0.38	0	1.35	0.46	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1 n/a	b3448		1.71	0.36	0	1.94	0.3	1
	0.15	1 b4363		1.42	0.4	0	1.72	0.9	0
	0.09	1 b4395		0.64	0.42	0	0.82	1.26	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1 b3469		1.23	0.29	1	0.92	0.72	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.23	1		1.23	0.34	0	1.62	0.47	0
	0.08	1 b4050		1.26	0.3	0	1.88	0.45	0
	0.11	1 b4116		1.31	0.35	0	1.18	0.52	1
	0.09	1 b0845		1.33	0.35	0	1.82	0.45	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.15	1 b2467		1.33	0.52	0	2.22	1.32	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1 b2435		1.04	0.26	0	0.82	0.8	1
	0.07	1 b0872		1.38	0.45	0	1.81	0.6	1
	0.07	1 b0899		1.26	0.54	0	1.4	0.34	0
	0.07	1 b0924		0.98	0.18	1	0.67	0.27	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.14 n/a	b3933		0.49	0.67	1	0.66	0.74	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.17	1 b4154		0.96	0.97	1	0.69	0.47	1
	0.19	1 b2405		1.15	0.28	0	1.33	0.9	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1 b2521		1.24	0.42	0	1.44	0.87	0
	0.19	1 b2560		1.28	0.25	0	1.57	0.67	0
	0.08	1 b4130		2.86	0.95	1	1.54	1.13	0
	0.1	1 b4161		1.13	0.3	0	1.53	0.43	1
	0.1	1		1.5	0.43	1	1.12	0.27	1
	0.07	1 b2276		0.36	0.06	1	0.72	0.5	1
	0.09	1		1.34	0.53	0	1.44	0.45	0
	0.07	1 b1096		1.25	0.38	0	1.45	0.73	1
	0.06	0		1.73	0.33	0	2.33	0.72	0
	0.08 n/a	b3339		0.42	0.19	1	0.11	0.04	1
	0.04	1 b1594		1.12	0.31	0	1.58	0.7	1

	0.17	1		1.32	0.19	0	2.2	0.57	0
	0.06	1 b1645		1.33	0.33	0	2.19	1.36	0
	0.06	1 b4207		1	2.77	0	1.32	0.58	1
	0.13	1 b0076		1.34	0.42	0	1.68	0.54	0
	0.2 n/a			1.3	0.55	0	1.79	0.97	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1		1.52	0.35	0	1.89	0.74	0
	0.15	1		1.65	0.43	0	2.2	1	0
	0.13	1		1.34	0.42	1	1.4	0.65	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1		1.3	0.38	0	1.49	0.62	0
	0.08	1 b1088		0.51	0.19	1	0.27	0.08	1
	0.04	1 b1708		1.16	0.37	0	1.4	0.78	0
	0.1	0 b0969		1.12	0.17	0	1.75	1.23	0
	0.07	1		1.61	1.24	0	1.72	0.48	0
	0.08	1 b0185		0.47	0.26	1	0.62	0.21	1
	0.08	1		0.86	0.23	1	0.19	0.05	1
	0.1	1 b0115		1.73	0.43	1	1.1	0.3	1
	0.12	1		1.51	0.17	0	1.61	0.39	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1		0.32	0.21	1	0.38	0.26	1
	0.15	0 b1626		0.89	0.29	0	1.54	0.54	0
	0.12	1 b1596		1.4	0.46	0	1.51	0.64	0
	0.13	1 b4034		1.06	0.32	0	0.74	0.63	1
	0.1	1		0.77	0.27	1	0.6	0.87	1
	0.05	1 b0378		1.59	0.49	0	1.81	0.9	0
	0.05	1 b0408		0.51	0.15	1	0.72	0.29	1
	0.08	1 b0086		1.59	0.35	1	1.37	0.38	1
	0.14	1		0.81	0.21	0	1	0.42	1
	0.11	1		1.01	0.22	0	1.31	0.66	1
	0.07	1 b1683		42.83	25.98	1	16	8.76	1
	0.12	1 b3455		1.33	0.34	0	2.29	0.58	0
	0.15	1 b0449		1.62	0.43	0	1.6	1.46	1
	0.08	1 b0576		1.06	0.63	0	1.44	0.44	0
	0.09	1		1.35	0.34	0	1.73	0.78	0
	0.09	1		1.57	0.13	0	1.57	0.8	0
	0.09	1 b2578		1.35	0.39	0	1.44	1.03	0
	0.1	1 b3548		1.64	0.25	0	2.55	0.82	0
	0.16	1 b3159		1.56	0.59	0	1.9	0.54	0
	0.11	1 b2248		1.4	0.46	0	1.69	0.91	0
	0.12	1 b2527		0.69	0.14	1	1.02	0.32	1
	0.09	1		1.79	0.54	0	1.73	0.56	0
	0.11	1 b4232		0.56	0.09	1	0.33	0.13	1
	0.11	1		1.12	0.22	0	1.27	0.55	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.06	1 b4367		1.61	0.21	0	1.84	0.43	0
	0.11	1 b3617		0.72	0.32	0	0.75	0.36	1
	0.15	1 b3534		1.06	0.13	0	1.79	0.65	0
	0.11	1 b3152		1.61	0.39	0	2.19	1.52	0
	0.08	1 b2239		1.55	0.34	1	0.83	0.15	1
	0.11	1 b2234		0.69	0.16	1	0.34	0.28	1

0.08	1		0.81	0.28	0	1.25	0.77	1
0.16	1 b3921		1.38	0.32	0	1.48	0.78	0
0.08	1		1.38	0.29	0	1.66	0.49	0
0.07	1 b0727		0.49	0.1	1	0.21	0.13	1
0.11	1 b3868		1.12	0.32	0	1.42	1.6	0
0.16	1 b3360		0.89	0.23	0	1.56	0.69	0
0.14	1 b3863		0.69	0.15	1	0.66	0.39	1
0.09	1 b0853		0.92	0.57	0	1.34	0.7	0
0.13	1 b3352		0.89	0.16	0	1.27	0.58	1
0.13	1 b4062		6.89	5.34	1	4.89	1.42	1
0.1	1 b2565		1.1	0.58	0	1.21	0.64	1
0.08	1 b1845		1.36	0.39	0	1.84	0.59	1
0.11	1		1.21	0.25	0	1.51	0.65	0
0.25	1 b3875		1.52	0.41	0	2.07	0.74	0
0.07	1 b1663		1.49	0.33	0	1.99	1.03	0
0.18 n/a			1.26	0.32	0	1.58	1.21	0
0.13 n/a			1.18	0.26	0	0.98	0.54	1
0.08	1 b2593		1.62	0.28	1	1.47	0.66	1
0.07	1 b0030		1.06	0.16	0	1.57	2.77	1
0.13 n/a			1.34	0.45	0	1.95	4.02	0
0.22 n/a			1.31	0.62	0	1.57	0.41	0
0.1	0		1.77	0.4	0	1.8	1.02	0
0.05 n/a			1.53	0.77	0	2.01	0.44	0
0.38	0		1.58	0.36	0	1.76	0.5	0
0.06	1		1.57	0.35	0	1.56	0.66	0
0.13	1 b4073		1.6	0.23	0	1.75	0.55	0
0.08	1 b1870		0.6	0.29	0	1.04	0.41	1
0.19	0		1.29	0.81	0	1.76	1.26	0
0.12	1 b0010		1.07	0.51	0	1.68	0.49	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.06	1 b0020		1.42	0.46	0	1.03	0.53	1
0.1	1 b3785		0.79	0.35	0	1	0.65	1
0.11	1 b3826		1.36	0.32	0	1.26	0.64	0
0.13	1 b3804		0.94	0.46	0	1	0.94	1
0.09	1 b2927		1.04	0.15	1	0.79	0.37	1
0.07	1 b1234		0.93	0.21	0	1.49	0.51	1
0.11 n/a			2.03	0.64	0	1.72	1	0
0.08	1 b2842		1.41	0.39	0	2.41	0.84	0
0.08	1		3.36	0.72	1	1.42	0.4	1
0.16	1 b2811		1.65	0.43	0	1.99	0.56	0
0.11	1		1.33	0.51	0	2.3	0.84	0
0.12	1 b2795		1.33	0.2	1	0.68	0.09	1
0.09	1		2.21	0.52	0	1.96	0.57	1
0.05	1 b3829		1.21	0.51	0	2.37	0.58	0
0.1	1 b3811		1.02	0.22	0	1.16	0.57	1
0.02	1 b3786		0.63	0.35	0	0.59	0.39	1
0.1	1 b3973		1.24	0.21	0	1.04	0.35	1
0.04	1 b2822		1.26	0.28	0	0.86	0.46	1
0.06	1 b1247		1.72	0.13	0	1.47	0.84	0
0.14	1 b3919		0.36	0.22	1	0.19	0.14	1
0.07	1 b0469		1	0.42	0	1.29	0.67	1
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0



0.06	1	b0584	2.92	1	0	1.93	0.8	0
0.09	1	b0906	0.89	1.18	0	1.83	0.98	0
0.08	1		1.57	0.54	0	1.42	0.79	0
0.07	1		1.19	0.38	0	1.59	0.64	0
0.11	1	b1452	3.86	0.74	1	1.94	0.64	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b1333	1.92	0.43	1	1.62	0.38	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.03	n/a		1.24	0.41	0	1.69	0.42	0
0.09	1		1.64	0.2	0	1.66	0.23	0
0.05	1		1.02	0.58	0	1.3	0.33	1
0.04	1		0.88	0.32	0	0.99	0.32	1
0.07	n/a		1.3	0.36	0	2.16	0.67	0
0.06	1		1.95	0.92	0	2.28	0.97	0
0.09	1	b1256	2.43	0.57	1	1.24	0.18	1
0.08	1		1.46	0.39	0	1.6	0.5	0
0.03	1		1.47	0.64	0	1.48	0.62	0
0.03	1		1.19	0.4	0	1.3	0.61	0
0.06	1	b1321	1.08	0.14	0	2	0.96	0
0.06	1	b2785	1.36	0.27	1	1.36	0.19	1
0.09	1	b2832	0.84	0.23	0	1.8	0.5	0
0.05	1		1.27	0.31	0	1.67	0.11	1
0.11	1	b2950	1.16	0.36	0	1.73	0.82	0
0.05	1	b0436	0.24	0.29	1	0.13	0.1	1
0.12	1	b3475	1.15	0.24	0	1.58	0.57	0
0.1	1		1.36	0.22	0	1.83	0.35	0
0.12	1		1.82	0.45	0	1.4	0.52	0
1.68	1	b3024	1.43	0.28	0	1.3	0.47	0
0.07	1	b2840	1.23	0.29	0	1.16	0.55	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.15	1		1.44	0.35	0	1.61	0.59	0
0.12	1	b3572	1.35	0.32	0	1.42	0.32	0
0.08	1		1.48	0.25	1	1.56	0.54	1
0.09	1	b3655	0.71	0.6	0	0.94	0.61	1
0.05	1		1.5	0.39	0	1.24	0.26	0
0.09	1	b2725	1.09	0.54	0	1.89	0.35	0
0.09	1		1.71	1.26	0	1.4	1.8	1
0.07	1	b2727	1.07	0.2	1	1.2	0.34	1
0.08	1	b2142	1.39	0.42	0	1.76	0.49	0
0.03	1		2.63	0.67	1	1.03	0.34	1
0.13	1		0.45	0.13	1	0.95	0.32	1
0.12	n/a		1	0.32	0	1.55	0.78	0
0.03	1	b2179	1.16	0.19	0	1.07	0.28	1
0.08	1	b2101	1.03	0.15	0	1.48	0.23	0
0.04	1	b1829	0.61	0.1	1	0.54	0.16	1
0.12	1	b3298	0.33	0.11	1	0.22	0.09	1
0.09	1	b3495	2.56	0.39	1	1.31	0.87	1
0.08	1	b3228	1.01	0.59	1	1.21	0.56	1
0.06	1	b3526	0.91	0.27	0	1.53	13.65	1
0.1	1	b3415	1.34	0.57	0	1.67	0.45	0
0.07	1		1.18	0.22	0	1.39	0.26	0

	0.12	1 b3031	0.78	0.17	1	0.98	0.29	1
	0.07	1 b2707	1.64	0.32	1	1.53	4.86	1
	0.04	1 b2146	1.38	0.33	0	1.67	0.39	0
	0.17	1 b3009	1.38	0.31	1	1.34	0.62	1
	0.06	0	1.48	0.32	0	1.97	0.12	0
	0.03	1 b0723	0.32	0.09	1	0.2	0.03	1
	0.06	1 b0780	1.2	0.35	0	1.74	0.73	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b1074	0.57	0.22	1	1.28	0.51	1
	0.09	1 b0774	1.17	0.54	0	2.5	0.51	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1 b3220	1.3	0.36	0	1.64	0.57	0
	0.12	1	1.92	0.93	0	2.32	0.76	0
	0.04	1 b3038	0.45	0.19	1	0.45	0.2	1
	0.08	1	1.57	0.36	0	1.65	0.46	0
	0.15	1 b0814	0.69	0.12	1	0.26	0.11	1
	0.18	1 b4194	1.62	0.4	0	1.59	0.49	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.12	1 b0396	1.24	0.21	0	1.49	0.69	0
	0.07 n/a	b4349	0.75	0.2	0	0.62	0.22	1
	0.06	1 b0442	1.12	0.23	0	2.21	0.69	0
	0.07	1	1.24	0.35	0	1.58	0.46	1
	0.14 n/a		1.59	0.42	0	1.62	0.79	1
	0.08	1	1.08	0.39	0	1.59	0.42	0
	0.12 n/a		1.45	0.28	0	1.53	0.19	0
	0.05	1	1.38	0.49	0	1.82	0.68	0
	0.08	1 b2793	1.01	0.46	0	1.06	0.23	1
	0.11	1	1.44	0.39	0	1.54	0.62	0
	0.16 n/a		1.86	0.7	0	1.96	0.67	0
	0.16	1	2.25	1.07	0	1.58	0.57	0
	0.08	1 b2990	2.1	0.69	0	1.52	0.69	0
	0.07	1	1.27	0.31	0	1.44	0.63	0
	0.05 n/a	b1530	0.82	0.22	0	0.82	0.41	1
	0.12	1 b3676	1.97	0.52	0	1.91	0.64	0
	0.12	1 b3652	0.67	0.62	1	0.89	0.95	1
	0.16	1 b3537	1.46	0.7	0	1.56	0.78	0
	0.13	1 b3670	1.51	0.81	0	1.67	0.94	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	0 b1686	1.38	0.67	0	2.06	0.67	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.26	0	1.32	0.37	0	2.09	0.86	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.11	1 b3190	0.93	0.27	0	0.85	2.83	1
	0.08 n/a		1.59	0.4	0	1.7	0.89	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.06	n/a		1.6	0.34	1	0.29	0.22	1
	0.09	n/a	b2306	0.94	0.1	0	1.24	2.9	0
	0.09	n/a	b2310	0.71	0.23	0	1.31	0.1	1
	0.08	n/a	b2464	0.81	0.35	0	1.65	0.83	0
	0.06	1	b2468	1.27	0.47	0	2.02	0.71	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.08	1		1.26	0.38	0	1.26	0.14	1
	0.12	1		1.53	0.39	0	1.5	0.79	0
	0.18	n/a	b0528	1.06	0.25	0	1.26	0.73	0
	0.06	1		0.7	0.26	1	0.51	0.16	1
	0.09	1		1.3	0.59	0	1.5	0.32	0
	0.09	1		1.36	0.19	0	1.49	1.5	0
	0.12	1	b0374	1.68	0.23	0	1.27	0.35	0
	0.06	1		1.45	0.39	0	1.88	0.58	0
	0.06	1		1.44	0.61	0	1.11	0.44	1
	0.1	1		0.38	0.09	1	0.25	0.14	1
	0.08	1		1.74	0.55	0	1.39	0.39	0
	0.1	1		1.52	0.74	0	1.49	0.4	0
	0.08	1		1.51	0.26	0	1.37	0.79	1
	0.09	1		1.24	0.65	0	1.38	0.44	1
	0.07	1		1.44	0.41	0	1.7	0.76	0
	0.08	1		1.72	0.5	0	1.43	0.44	0
	0.06	1		1.16	0.22	0	1.67	0.61	0
	0.12	1		1.01	0.13	0	1.04	0.08	1
	0.07	n/a		1.49	0.44	0	1.48	0.49	0
	0.07	1		1.3	0.49	0	1.72	0.47	0
	0.09	1		1.21	0.14	1	0.73	0.35	1
	0.05	1		1.51	0.27	0	1.64	1.32	0
	0.08	n/a		0.9	0.39	0	1.16	0.5	1
	0.08	1		1.14	0.72	0	1.3	0.36	0
	0.69	1		1.83	0.45	0	1.37	2.86	0
	0.09	n/a	b4016	0.38	0.06	1	0.34	0.1	1
	0.05	1		1.3	0.59	0	1.49	0.28	0
	0.1	1		2.26	0.63	0	1.93	0.45	0
	0.13	1		1.53	0.35	0	2.04	0.71	0
	0.08	n/a	b4330	0.98	0.29	0	1.38	0.3	0
	0.14	1		1.43	0.4	0	1.53	0.74	0
	0.09	1		1.24	0.33	0	1.69	0.75	0
	0.05	1		1.17	0.2	0	1.18	0.41	1
	0.15	n/a		1.34	0.52	0	2.08	0.54	0
	0.11	1		1.24	0.29	0	1.69	0.67	0
	0.13	1		1.15	0.18	1	1.26	0.66	1
	0.13	1		1.58	1.1	0	1.4	1.17	1
	0.07	1	b3706	0.66	0.57	0	1.05	0.64	1
	0.15	1	b3738	0.22	0.07	1	0.17	0.14	1
	0.13	1		1.44	0.25	1	1.17	0.19	1
	0.08	1	b3195	0.86	0.2	0	1.43	0.57	1

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.05	1 b3229		0.85	0.19	1	0.88	0.49	1
	0.09	1 b3251		0.5	0.33	1	1.09	0.54	0
	0.09	1		0.4	0.3	1	0.78	0.38	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.08	1 b0683		1.66	0.49	1	1.53	0.69	1
	0.1	1 b0995		1.24	0.88	0	1.78	0.69	0
	0.06	1		1.17	0.48	0	2.18	0.47	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.09	1 b3711		1.54	0.33	0	1.57	0.3	0
	0.09	1 b3747		0.91	0.19	0	1.58	0.72	0
	0.09	1		1.26	0.36	0	1.12	0.67	0
	0.06	1 b0759		1.89	0.62	1	2.12	0.96	1
	0.09	1		0.88	0.57	0	1.79	0.57	0
	0.09	1		1.17	0.18	1	0.97	0.43	1
	0.11 n/a			1.4	0.28	0	1.8	0.63	0
	0.07	1 b0101		1.77	0.48	0	1.46	0.2	0
	0.06	1 b0126		1.56	0.65	0	2.06	0.62	0
	0.04	1 b0163		1.06	0.25	1	0.95	0.38	1
	0.07	1 b3285		1.47	0.32	1	1.66	0.98	0
	0.18	1		1.51	0.53	0	1.8	0.79	0
	0.04	1 b1109		1.42	0.39	0	1.63	0.39	0
	0.07	1		1.07	1.26	0	1.97	0.44	0
	0.03	1 b1782		0.67	0.3	1	1.4	0.68	0
	0.04	1 b2060		1.54	0.52	0	1.76	0.57	0
	0.12	0 b1112		1.46	0.33	0	2.31	0.87	0
	0.15	0		1.59	0.78	0	1.9	0.62	0
	0.05	1 b1781		0.95	0.27	0	1.32	0.81	1
	0.02	1 b2063		0.86	0.55	0	1.7	0.3	0
	0.11	1 b4403		1.09	0.42	0	1.86	0.62	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.04	1 b2053		1.51	0.17	0	1.72	0.51	0
	0.06	1 b2081		0.53	1.49	0	1.24	0.74	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.12 n/a			1.44	0.49	0	2.02	0.95	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.06	1 b0948		0.37	0.48	1	0.66	0.56	1
	0.06	1 b3962		0.5	0.1	1	0.57	0.2	1
	0.12	1 b2739		1.22	0.55	0	2.05	0.75	0
	0.12	1 b2331		1.09	0.55	0	1.63	0.53	0
	0.03	1 b2409		1.82	0.75	0	1.37	0.48	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.14	0 b2518		0.45	0.47	1	0.74	0.31	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.11	1 b2507		0.31	0.4	1	0.85	0.69	1
	0.07	1 b2531		1.94	0.17	1	1.33	1.19	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.22	1		0.62	1.03	0	1.55	0.82	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.1	1		1.31	0.22	0	1.76	0.71	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.07	1		1.54	0.38	0	1.8	0.44	0

0.12		1 b2475	1.29	0.34	0	1.36	0.34	0
0.06		1	1.54	0.33	0	1.9	0.76	0
0.04		1	1.53	0.61	0	2.16	0.75	0
0.06		1 b0921	0.74	0.2	0	1.35	0.42	0
0.09		1 b1919	1.12	0.85	1	1.72	0.73	1
0.06		1 b2023	1.34	0.47	0	1.68	0.84	0
0.03		1 b2292	1.56	0.26	0	1.47	0.36	0
0.04		1	1.67	0.57	0	2.05	0.66	0
0.07		1 b1798	0.71	0.36	0	1.09	1.33	0
0.06		1	1.21	1.31	1	1.72	0.66	0
0.1		1 b1722	1.2	0.24	0	1.97	0.44	0
0.07		1 b0335	1.59	0.78	0	2.04	0.86	0
0.08		1 b1732	1.26	0.45	0	1.93	0.51	0
0.1		1 b4166	1.66	0.43	0	1.6	0.53	0
0.06	n/a		1.17	0.41	1	1.03	0.98	1
0.06		1	1.45	0.22	0	2.33	0.66	0
0.16		1 b4188	3.08	0.56	1	1.5	0.6	0
n/a	n/a		n/a	n/a	0 n/a	n/a	n/a	0
	0.1	1 b2232	0.85	0.6	0	1.27	0.58	1
n/a	n/a		n/a	n/a	0 n/a	n/a	n/a	0
	0.05	1	1.43	0.38	0	1.76	0.6	0
	0.06	1 b2254	0.18	0.38	1	0.26	0.97	1
	0.09	1 b2291	1.18	0.23	0	1.69	0.42	0
n/a	n/a		n/a	n/a	0 n/a	n/a	n/a	0
	0.08	1	1.06	0.32	0	1.58	0.43	0
n/a	n/a		n/a	n/a	0 n/a	n/a	n/a	0
	0.06	1 b0331	1.47	0.37	0	1.68	0.37	0
	0.43	1 b2582	11.61	5.18	1	7.64	2.63	1
	0.11	1 b0390	1.24	0.59	0	2.04	0.64	0
	0.14	1	1.61	0.31	0	1.98	0.35	0
	0.14	1 b2300	0.75	0.26	0	1.63	0.66	0
	0.09	1 b2253	0.18	0.46	1	0.5	0.74	1
	0.18	1 b4030	1.28	0.31	0	1.53	0.31	0
	0.04	1 b1678	1.51	0.18	0	2.35	0.4	1
	0.05	1	1.13	0.14	0	1.93	0.68	0
	0.12	1 b2213	1.15	0.81	0	1.34	0.69	0
	0.13	1	1.57	0.53	0	1.34	0.77	0
	0.05	1 b2563	0.97	0.25	0	2.07	0.74	0
	0.26	1 b0120	0.59	0.37	1	0.85	0.81	1
	0.15	1 b2009	2.93	1.58	1	4.29	1.68	1
	0.14	1 b0110	1.54	0.26	1	1.17	0.42	1
	0.08	1	1.09	0.47	0	1.8	0.48	0
	0.05	1 b1719	0.49	0.18	1	0.49	0.48	1
	0.09	1 b0423	0.98	0.39	0	2.32	0.99	0
	0.06	1 b1605	1.18	0.34	0	1.83	0.5	0
	0.14	1 b0481	0.94	0.5	0	1.24	0.5	0
	0.06	1 b0482	1.05	0.21	0	1.33	0.27	0
	0.09	1 b0592	4.12	2.97	1	2.11	0.7	0
	0.1	1 b4258	0.7	0.41	1	0.94	0.6	1
	0.08	1 b4401	1.4	0.34	1	1.52	0.76	1
	0.08	1	1.44	0.36	0	1.5	0.49	0
	0.15	1 b3651	0.76	0.21	0	1.64	0.55	0

	0.04	1		1.53	0.46	0	1.78	0.75	0
	0.1	1 b2406		1.19	0.41	0	1.5	0.37	0
	0.07	1		8.07	5.33	1	2.49	1.05	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	0		1.71	0.39	0	2.45	1.06	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1 b2575		1.24	0.26	0	1.49	0.69	0
	0.09	1		1.15	0.36	0	1.87	0.76	0
	0.11	1 b3487		1.49	0.56	0	1.98	0.55	0
	0.14	1		1.38	0.21	0	1.86	0.75	0
	0.06	1		0.97	0.67	0	2.55	1.82	0
	0.11	1		0.76	0.43	1	1.34	0.42	0
	0.09 n/a	b2457		1.37	0.39	0	1.72	0.54	0
	0.19	1 b3910		1.15	0.35	0	1.67	0.94	0
	0.09	1 b0651		0.89	0.59	0	1.82	0.47	0
	0.15	0 b0699		1.74	0.63	0	1.38	0.8	0
	0.18	1		1.69	0.43	0	1.31	0.47	0
	0.08	1		1.42	0.48	0	1.86	0.58	0
	0.04	1 b0766		1.37	0.38	0	1.51	0.52	0
	0.1	1		1.82	0.19	0	1.75	0.92	0
	0.07	1		0.99	0.2	1	0.33	0.12	1
	0.08	1 b1076		0.91	0.42	0	1.07	0.76	1
	0.07	1 b1211		0.61	0.47	0	0.94	0.62	1
	0.04	1 b1896		1.4	0.17	0	2.12	0.88	0
	0.14	0		1.76	0.32	0	1.79	0.79	0
	0.1	1 b3736		0.24	0.04	1	0.13	0.1	1
	0.09	1 b1651		0.8	0.25	1	0.76	0.49	1
	0.11	1 b1918		1.24	0.56	1	1.43	0.51	0
	0.06	1		1.17	0.25	1	1.41	0.41	0
	0.06	1 b2571		1.82	0.5	1	1.98	2.96	1
	0.05	1 b0720		1.14	0.26	1	0.85	5.04	1
	0.09	1 b1129		0.69	0.09	1	0.74	2.23	1
	0.11	1 b4005		0.98	0.39	0	1.42	0.42	0
	0.08	1 b3168		1.05	0.16	1	0.51	0.62	1
	0.08	1		1.78	0.33	0	1.58	0.45	0
	0.05	1 b4239		0.84	0.09	1	0.61	0.24	1
	0.11	1		1.61	0.24	0	1.77	0.49	0
	0.05	1 b1092		0.61	0.09	1	0.43	0.31	1
	0.06	0 b1283		1.15	0.24	0	2.18	1.14	0
	0.11	1		1.34	0.25	0	1.78	0.9	0
	0.11	1 b3630		1.48	0.47	1	1.6	0.7	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1		1.24	0.43	0	2.22	1.33	0
	0.09	1 b3844		0.45	0.36	1	0.6	2.31	1
	0.07	1 b2606		0.56	0.2	1	0.5	0.49	1
	0.09	1 b3791		1.1	0.41	1	1.39	0.35	0
	0.12	1		1.26	0.22	0	1.62	0.55	0
	0.09	1 b1080		0.82	0.38	0	1.25	0.44	0
	0.15	1		1.41	0.49	0	1.56	0.24	0
	0.16	1 b2828		0.72	0.42	1	0.97	0.41	1
	0.06	1		0.5	0.38	1	0.49	0.62	1
	0.1	1		1.41	0.37	0	1.62	0.56	0

0.14	1	b3893	1.13	0.12	1	1.16	2.75	1
0.07	1	b0809	0.66	0.13	1	0.59	0.47	1
0.04	1	b3845	0.22	0.07	1	0.31	0.17	1
0.06	1	b1880	1.2	0.35	0	1.94	1.41	0
0.07	1	b0926	0.26	0.11	1	0.28	0.13	1
0.21	0	b3583	1.48	0.55	0	2.51	1.2	0
0.06	1	b0130	0.83	0.24	0	1.53	0.56	0
0.12	1	b0605	12.82	4.74	1	15.27	5.05	1
0.1	1	b2837	0.75	0.3	1	1.11	0.37	1
0.11	1		1.36	0.21	0	1.88	0.39	0
0.09	1	b1859	1.2	0.19	0	1.98	0.33	0
0.03	1		1.57	0.45	0	1.79	0.56	0
0.06	1	b1467	1.68	0.42	0	1.51	0.27	0
0.08	1	b1465	1.4	0.48	0	1.53	2.48	0
0.11	1		1.2	1.06	0	1.77	0.37	1
0.08	1		0.66	0.3	1	1.21	0.35	1
0.07	1	b1192	1.07	0.41	0	1.72	0.42	0
0.11	1	b1832	0.35	0.32	1	0.82	0.49	1
0.05	1	b1857	0.27	0.12	1	0.48	0.39	1
0.1	1	b1330	1	0.17	0	1.45	0.34	0
0.05	n/a		1.24	0.38	0	1.5	0.5	0
0.06	1		1.2	0.3	1	1.22	1.05	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1	b0589	3.73	1.28	1	1.62	1.46	0
0.06	1		1.49	0.79	0	1.94	1.23	0
0.04	1		1.24	0.63	0	1.83	0.76	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1		1.2	0.08	0	1.92	0.45	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	1	b1852	1.45	0.2	1	0.93	0.71	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.11	1		1.21	0.37	0	1.97	0.95	1
0.07	1	b2926	0.96	0.17	1	0.58	3.25	1
0.13	1		1.15	0.46	0	1.45	0.35	0
0.1	1		1.45	0.28	0	1.84	0.52	0
0.09	1	b2702	2.91	1	1	3.05	0.93	1
0.06	n/a		1.17	0.37	0	1.8	0.35	0
0.12	0		1.24	0.39	0	2	1.2	0
0.24	1	b2804	1.5	0.19	0	1.71	0.99	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	1	b0386	1.6	0.25	1	1.42	0.75	1
0.07	1		1	0.16	1	0.56	0.22	1
0.08	1	b2830	0.74	0.15	1	0.86	0.2	1
0.07	1		1.6	0.33	0	1.99	0.44	0
0.06	1	b1582	1.09	0.47	0	1.47	0.73	0
0.06	1	b3773	1.26	0.29	0	1.48	0.42	0
0.06	1	b2708	1.25	0.04	1	1.61	0.49	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	n/a		1.54	0.26	0	1.81	0.64	0
0.1	1	b2698	1.35	1.2	0	2.24	0.56	1
0.04	1	b2151	0.94	0.35	0	1.59	0.44	0

0.09		1 b2186	0.46	0.46	1	0.87	0.34	1
0.05		1 b2086	1.51	0.48	0	2.05	0.24	0
0.09		1 b2138	1.37	0.53	0	1.66	0.62	0
0.1		1 b2167	1.37	0.27	0	1.86	0.32	0
0.06		1 b2098	1.13	0.26	0	1.81	0.48	0
0.11		1	1.37	0.65	0	1.25	1.17	0
0.14		1 b3577	1.41	0.67	0	2.71	0.83	0
0.06		1 b0866	1.08	0.27	0	1.39	0.54	0
0.07		1 b4180	1.5	0.29	1	1.48	0.56	0
0.18		1 b3345	0.47	0.24	1	1.57	0.42	0
0.06		1 b4173	0.57	0.12	1	0.58	0.14	1
0.13		1 b3161	0.83	0.29	0	1.18	1.39	0
0.14		1 b4393	0.92	0.46	0	2.12	0.84	0
0.1		1 b2690	0.9	0.22	1	1.37	0.71	0
0.05		1 b2174	0.25	0.32	1	0.72	0.22	1
0.06		1 b2963	0.7	0.27	1	1.02	0.37	1
0.12	n/a	b2912	1.34	0.23	1	1.57	0.37	1
0.05		1 b0750	0.74	0.29	0	1.32	0.52	1
0.03		1	2.44	0.87	0	1.88	0.28	0
0.05		1 b2892	0.63	0.24	1	0.99	0.83	1
0.17		1 b3150	0.68	0.12	1	0.94	0.5	1
0.07		1 b0785	2.03	0.44	0	1.57	0.4	0
0.04		1 b0835	0.35	0.16	1	0.49	0.24	1
0.04		1	1.63	0.37	0	1.63	5.6	0
0.24		1 b3100	0.77	0.36	0	1.35	0.75	0
0.1	n/a		1.75	0.3	1	0.91	0.44	1
0.11		1	0.98	0.25	0	1.94	0.68	0
0.02		1 b0823	1.84	0.4	1	1.67	0.41	0
0.08		1 b0379	1.01	0.26	0	1.91	0.51	0
0.11		1 b0435	0.55	0.2	1	0.7	0.35	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.06	n/a		1.32	0.39	0	1.95	0.73	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.12		1	0.74	0.12	1	1.25	0.28	1
0.31		0 b4151	1.98	0.65	1	1.42	0.42	0
0.06		1	1.22	0.19	0	1.87	0.4	0
0.06		1 b1208	0.31	0.04	1	0.32	0.74	1
0.12		1	1.3	0.34	0	1.83	1.1	0
0.09		1 b2051	1.72	0.39	0	1.87	0.59	0
0.1		1	1.45	0.23	0	2.03	0.45	0
0.07		1 b3185	0.21	0.03	1	0.37	0.14	1
0.17		1 b2962	0.72	0.11	1	0.46	0.13	1
0.03		1	0.86	0.22	0	1.39	0.6	0
0.06		1 b1854	1.49	0.28	1	0.73	0.4	1
0.07		1 b1383	1.41	0.18	0	1.2	1.5	0
0.06		1 b3238	1.35	0.33	0	2.2	1.54	0
0.07		1 b2007	0.76	0.1	1	1.3	0.94	1
0.09		1	1.52	0.45	0	1.72	0.61	0
0.12		1	1.14	0.21	0	1.67	0.71	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0



	0.09	1		1.69	0.32	0	1.7	0.48	0
	0.19	1		1.28	0.26	0	1.86	0.92	0
	0.12	1	b2325	0.73	0.27	0	1.41	0.44	0
	0.1	1	b2377	1.53	0.26	0	1.6	0.56	0
	0.1	1		0.92	0.21	0	1.43	0.31	0
	0.09	1	b0630	0.68	0.16	1	1.16	1.75	1
	0.12	1	b0682	2.01	0.55	0	1.56	0.86	0
	0.09	1	b2315	0.42	0.18	1	0.77	0.22	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.13	1		0.83	0.05	1	0.89	0.65	1
	0.11	n/a		1.27	0.13	0	1.64	0.48	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.11	0		1.46	0.36	0	1.94	4.69	0
	0.06	n/a	b0584	2.51	0.49	1	1.92	0.29	0
	0.07	n/a		1.1	0.23	0	2.3	0.72	0
	0.09	1		1	0.23	0	0.99	0.18	1
	0.04	1		1.27	0.3	0	1.17	0.67	0
	0.05	1		1.26	0.18	0	1.48	0.23	0
	0.05	n/a		1.12	0.26	0	1.35	0.21	1
	0.05	1		0.96	0.35	0	1.4	0.38	1
	0.07	1		1.15	0.58	0	2.12	0.92	0
	0.05	1		1.09	0.22	0	1.74	0.63	0
	0.07	1		1.08	0.3	0	1.45	0.75	0
	0.08	1		0.98	0.23	0	1.6	0.53	0
	0.1	n/a		1.04	0.32	0	2.54	3.69	0
	0.12	1		1.25	0.43	0	2.74	1.01	0
	0.04	1		2.18	2.25	0	2.35	0.97	0
	0.05	1		1.67	0.51	0	1.96	0.58	0
	0.04	1	b1629	0.6	0.17	1	0.96	0.35	1
	0.08	n/a		1	0.16	0	1.6	0.67	0
	0.08	n/a		1.13	0.49	0	1.96	0.69	0
	0.04	n/a		1.85	0.61	0	1.88	0.62	0
	0.08	1		1.46	0.39	0	1.9	0.77	0
	0.08	1		1.35	0.28	0	1.52	0.39	0
	0.07	1		1.13	0.32	0	1.58	0.54	0
	0.11	1		1.15	0.29	0	1.45	0.38	0
	0.22	0		1.4	0.28	0	1.58	1.2	0
	0.04	1		1.29	0.38	0	1.86	0.68	0
	0.21	0		1.22	0.5	0	1.75	3.22	0
	0.09	1		1.19	0.39	0	1.33	0.16	0
	0.1	n/a		1.18	0.32	0	1.48	0.22	0
	0.1	1		1.16	0.28	0	1.51	0.64	0
	0.16	1		1.59	0.63	0	2.09	0.8	0
	0.06	1		1.3	0.21	1	0.79	1.54	1

	0.13	1		1.18	0.61	0	1.73	0.47	0
	0.17	1		1.49	0.3	0	2.18	0.94	0
	0.06	1		1.64	0.45	1	1.67	0.48	1
	0.06	1 b4074		1.4	0.54	0	1.65	0.54	0
	0.08	1		1.3	0.3	0	1.37	0.6	1
	0.06	1		1.01	0.23	1	1.26	0.47	1
	0.11	1		1.14	0.51	0	1.75	1.02	0
	0.12	1 b0127		0.7	0.25	1	0.75	1.25	1
	0.13	1 b0182		0.73	0.42	1	1.27	0.56	1
	0.11	1 b1539		0.84	0.26	0	0.9	0.38	1
	0.18	1 b4113		0.62	0.36	1	0.67	0.71	1
	0.2	1		1.77	0.55	0	1.5	0.3	0
	0.11	1 b3739		0.3	0.16	1	0.8	1.04	1
	0.22	1 b3261		0.72	0.35	0	0.94	0.78	1
	0.05	1		1.43	0.25	0	2.47	2.22	0
	0.04	1		1.24	0.8	0	1.78	1.24	0
	0.14	1		1.48	0.55	0	2.51	0.76	0
	0.29	1 b3187		0.74	0.15	1	1.06	0.46	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.2	1 b0058		1.09	0.32	0	1.6	0.53	0
	0.22	1 b0114		1.69	0.41	1	0.59	0.59	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.19	1		1.19	0.13	1	0.64	1.82	1
	0.11	1 b0191		0.76	0.63	0	1.23	0.45	0
	0.1 n/a	b1525		1.36	0.27	0	1.1	0.24	1
	0.09	1 b0642		0.34	0.34	1	0.78	0.95	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1		0.95	0.51	0	1.16	0.64	0
	0.18	1		1.73	0.69	0	1.53	0.76	0
	0.12	1		1.52	0.53	0	1.74	0.63	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b4377		1.24	0.44	0	1.73	0.86	0
	0.19	1		1.3	0.51	0	1.86	0.52	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.17	1 b4143		1.31	0.34	1	0.68	0.85	1
	0.22	1 b0224		0.63	0.36	0	0.81	0.36	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.25	1 b0966		1.15	0.61	0	1.66	1.47	1
	0.15	1 b1013		1.45	0.3	0	1.63	0.35	0
	0.15	1 b1056		1.45	0.23	0	1.44	0.54	0
	0.13	0 b1103		0.83	0.51	0	1.15	1.01	1
	0.1	1		1.72	0.57	0	1.88	0.62	0
	0.18	0 b3280		1.1	0.35	0	1.5	0.47	0
	0.19	1		0.9	0.35	0	1.17	0.32	1
	0.18	1 b3396		0.87	0.37	0	1.22	0.6	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b3436		1.43	0.56	0	1.99	0.81	0
	0.09	1		1.57	0.51	0	1.71	0.49	0
	0.3	1		1.37	0.78	0	2.36	0.98	0
	0.09	1 b1514		1.62	0.61	1	1.35	1.12	0

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.22	1 b2731		1.88	0.88	1	1.93	0.53	0
	0.16	n/a b2737		1.61	2.25	0	2.12	1.15	0
	0.31	1 b3945		3.47	1.14	1	1.63	9.21	1
	0.17	1 b2722		1.26	0.39	0	1.47	0.26	0
	0.23	n/a		0.89	0.53	0	1.46	2.15	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.28	0 b2398		1.28	0.28	0	1.53	0.74	0
	0.17	1 b2469		1.63	0.52	0	1.4	0.72	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.11	1 b3925		1.08	8.57	0	1.66	0.25	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.26	1 b4093		1.61	0.63	0	1.74	0.65	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.16	1 b2407		1.44	0.24	0	1.34	0.65	1
	0.08	1		3.11	1.12	1	1.72	0.95	0
	0.06	1 b1602		0.65	0.22	1	0.93	1.19	1
	0.14	n/a		1.28	0.75	0	2	0.81	0
	0.18	1		1.22	0.68	0	2	0.61	0
	0.21	1 b4183		1.53	0.71	0	1.56	0.8	0
	0.27	1 b4220		0.91	0.59	0	1.37	0.55	1
	0.21	1 b4233		0.84	0.4	1	0.74	0.24	1
	0.17	1		1.45	0.5	0	2.03	0.55	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.19	1 b4337		1.43	0.75	0	1.65	0.77	0
	0.2	1		1.05	0.22	1	1.18	0.53	1
	0.19	1 b1718		0.5	0.08	1	0.23	0.45	1
	0.1	1		1.64	0.46	0	1.57	0.48	0
	0.09	1		2.09	0.6	0	1.36	0.39	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.05	0 b1051		1.25	1.95	0	2.21	0.9	0
	0.06	1 b1787		1.93	0.81	0	1.63	0.76	0
	0.08	1		0.64	0.43	1	0.86	1.2	1
	0.13	1 b1059		1.44	0.45	0	1.39	0.48	0
	0.11	1 b1767		0.71	0.53	1	0.55	0.47	1
	0.21	1		0.41	0.13	1	0.34	0.59	1
	0.16	1 b1739		1.25	1.41	0	1.03	0.91	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.13	1 b1637		0.51	0.21	1	0.65	0.32	1
	0.18	1 b1680		3.87	2.53	1	5.47	2.03	1
	0.15	1 b1069		0.86	0.13	1	1.1	0.27	1
	0.19	1		1.39	0.62	0	2.02	0.69	0
	0.29	1 b3740		0.56	0.21	1	0.93	0.35	1
	0.22	0 b2579		1.6	0.47	0	1.54	0.76	0
	0.13	1 b0188		1.31	0.37	1	1.43	0.96	1
	0.07	1 b0403		1.86	0.47	1	0.97	0.61	1
	0.14	1 b4020		1.49	0.4	0	1.29	0.5	0
	0.07	1 b4067		0.98	0.38	0	1.81	2.32	0
	0.11	1 b1745		1.28	0.63	0	1.43	1.47	0
	0.16	1 b1706		1.11	0.48	0	1.26	1.56	1
	0.09	1 b1647		1.77	0.54	0	1.4	0.71	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	

0.11	1	b2041	0.69	0.56	1	1.12	1.09	1
0.12	1		1.24	0.52	0	1.8	0.63	0
0.09	1	b0157	1.18	0.26	0	1.79	0.34	0
0.17	1	b0042	1.63	0.35	0	1.57	0.36	0
0.22	1	b0111	1.66	0.38	1	1.36	0.69	1
0.22	1	b3527	0.88	0.51	0	1.29	0.8	1
0.15	1	b3423	0.83	0.45	0	1.24	0.53	0
0.14	1	b2260	1.03	0.34	1	1.64	0.86	1
0.19	1	b2512	0.66	0.25	0	1.42	0.33	0
0.13	n/a		1.52	0.31	0	2.1	1.49	0
0.15	1		0.91	0.43	0	1.45	0.69	0
0.09	1	b4387	0.91	0.34	0	0.97	0.6	0
0.11	1	b3573	1.44	0.22	0	1.44	0.54	0
0.29	1		1.42	0.51	0	1.43	0.66	0
0.22	1	b3397	1.12	2	0	1.03	1.54	0
0.06	1	b2246	1.6	0.42	0	1.51	1.46	0
0.1	1	b2497	1.06	1.7	0	1.19	1.25	0
0.14	1	b2296	0.62	0.17	1	0.65	0.77	1
0.05	1		1.53	0.75	0	2.01	3.88	0
0.12	1	b0521	1.82	0.83	0	1.61	0.59	0
0.11	1	b4218	0.96	0.26	0	1.27	0.39	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.28	1	b3028	1.22	0.3	0	1.39	0.46	0
0.22	1		0.86	0.23	1	0.79	0.22	1
0.14	1	b2169	1.48	0.28	0	1.86	0.71	0
0.12	1	b2235	0.69	0.33	1	0.4	0.2	1
0.15	1	b2439	1.49	0.16	0	2.15	0.46	0
0.15	1		1.21	0.38	0	0.98	0.35	1
0.16	0	b0685	1.47	0.49	0	1.81	0.33	0
0.13	1		1.58	0.73	0	1.8	0.87	0
0.11	1		0.82	0.23	0	0.81	0.42	1
0.16	1	b3859	0.71	0.37	1	0.6	0.5	1
0.12	1	b0836	2.05	0.63	0	1.9	0.84	0
0.18	1	b3355	0.87	0.26	0	1.46	0.8	0
0.21	1	b4018	0.64	0.24	1	0.93	0.47	1
0.1	1		1.06	0.62	0	0.95	0.23	1
0.26	1	b3296	0.25	0.07	1	0.23	2.06	1
0.11	1	b2144	0.96	0.23	0	1.66	0.62	0
0.1	1		1.71	0.4	0	1.58	0.59	1
0.13	1	b4003	1.3	0.2	1	1.24	0.69	1
0.16	1		1.09	0.46	0	1.83	0.61	0
0.1	1	b2829	0.83	0.62	1	0.94	0.28	1
0.2	n/a		0.83	0.18	0	1.18	0.84	0
0.09	1		1.64	0.24	1	0.87	0.54	1
0.14	1	b3239	1.72	0.6	0	1.63	0.34	0
0.12	1		1.75	0.38	0	1.49	0.43	0
0.12	1		1.76	0.52	0	2.15	1.55	0
0.18	1	b0027	0.9	0.16	1	1.11	0.36	0
0.31	0		1.46	0.54	0	1.37	0.68	0
0.11	1		1.37	0.32	0	1.24	0.61	0
0.16	1	b3877	1.49	0.55	0	1.62	1.17	0
0.12	1	b2392	42.34	41.41	1	10.21	5.4	1

0.1	1	b2149	1.15	0.21	1	1	0.76	1
0.04	1	b1687	1.45	0.57	0	1.18	0.46	0
0.08	1	b1225	2.23	1.37	0	1.24	0.49	0
0.13	1	b1194	1.17	0.42	0	2.03	6.63	0
0.1	1		1.17	0.62	0	1.5	0.48	0
0.06	1	b2789	2.18	0.35	1	1.72	0.98	1
0.19	1	b2834	1.08	0.69	0	1.24	0.36	1
0.18	1	b3847	0.56	0.19	1	0.67	0.29	1
0.14	1	b3433	0.5	0.16	1	0.72	0.29	1
0.11	1	b0053	0.48	0.11	1	0.4	0.25	1
0.08	1	b3788	0.72	0.19	1	0.74	0.25	1
0.11	1	b3770	1.25	0.51	0	1.27	0.44	0
0.04	1	b1236	0.94	0.16	1	0.84	0.24	1
0.09	1	b3987	0.45	0.17	1	0.59	0.68	1
0.11	1		0.98	0.29	0	1.29	0.3	0
0.13	1	b0063	1.45	0.3	0	1.54	1.06	0
0.15	1	b1244	0.92	0.28	0	1.02	0.92	0
0.03	1	b2132	1.17	0.52	0	0.76	0.73	1
0.14	n/a		0.73	0.37	1	0.98	0.5	1
0.05	1	b0595	2.55	0.99	1	2.19	0.56	0
0.08	1	b1278	1.55	0.27	1	1.5	0.35	0
0.09	1	b1233	0.67	0.46	0	0.8	0.53	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.11	1	b1424	0.47	0.23	1	0.9	0.74	1
0.1	1		1.42	0.3	0	1.26	0.35	0
0.08	1		0.81	0.44	1	1	0.38	1
0.12	1	b0476	2.39	0.72	1	2.03	1.3	0
0.11	1		1.48	0.31	0	1.54	0.16	0
0.16	1	b3657	1.59	0.26	0	1.82	0.5	0
0.09	1	b1464	1.07	0.25	1	1.44	0.58	0
0.06	1	b1272	0.94	3.75	0	1.23	0.21	1
0.1	1	b1431	1.21	0.29	1	1.17	0.33	1
0.1	1		1.28	0.44	0	1.63	0.26	0
0.1	n/a		0.92	0.41	0	0.94	2.27	0
0.15	1		1.5	0.44	0	1.6	0.48	0
0.11	1	b1849	1.4	0.24	1	1.84	0.5	0
0.11	1		1.12	0.22	1	1.33	1.37	0
0.12	1	b1280	0.94	0.34	0	1.23	0.13	0
0.09	1	b2610	1.02	0.19	1	0.85	1.27	1
0.13	1		1.11	0.43	0	1.77	0.44	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1		1.36	0.27	1	1.26	0.29	0
0.08	1		1.79	0.51	0	1.75	0.53	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	0		1.3	0.11	0	2.2	0.39	0
0.11	1	b3599	0.77	0.35	1	0.82	0.67	1
0.19	1		1.76	0.23	0	1.48	0.82	0
0.08	1	b2802	2.32	0.22	0	1.47	0.29	0
0.07	1		1.44	0.59	0	1.47	0.85	0
0.16	1		1.29	8.02	0	1.41	0.61	0
0.11	1	b3519	1.38	0.2	1	1.25	0.37	0
0.21	1	b2955	0.56	0.49	1	0.59	85.72	1

0.14	1	b3604	1.12	0.38	0	1.78	0.95	0
0.13	1		1.7	0.49	0	1.62	0.32	0
0.07	1		1.29	0.56	0	1.87	0.33	0
0.08	1	b2127	1.27	0.21	0	1.45	0.42	0
0.1	1		1.2	0.35	0	1.21	0.57	1
0.07	1	b2058	1.23	0.35	0	1.49	1.62	0
0.08	1	b2136	1.32	0.29	0	1.68	0.37	0
0.08	1	b3284	1.47	0.28	1	1.36	0.19	1
0.16	1	b3521	1.12	0.72	0	2.13	0.53	0
0.06	1	b1181	1.12	0.63	0	1.31	0.4	0
0.07	1	b3553	1.01	0.09	1	1.26	0.64	1
0.11	1		1.69	0.25	0	1.83	0.22	0
0.08	1	b3208	1.14	0.22	0	1.32	0.46	0
0.06	1	b4262	0.94	0.11	0	1.36	0.38	0
0.1	1	b4135	0.89	0.08	1	0.87	0.39	1
0.18	1	b3191	1.18	0.44	0	1.13	0.24	0
0.17	1	b3117	3.99	1.4	1	1.59	0.48	0
0.14	1	b2993	1.76	0.84	0	1.52	0.85	0
0.1	1	b2705	2.1	0.24	1	1.72	0.89	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	n/a		1.22	0.37	0	1.84	1.82	0
0.04	1		1.53	0.47	0	1.68	0.43	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1	b2168	1.48	0.9	0	1.64	0.61	0
0.16	1	b3283	1.03	0.27	1	1.33	0.54	1
0.18	1	b3314	0.36	0.09	1	0.36	0.45	1
0.05	1		1.12	0.34	1	1.14	0.42	1
0.08	1	b0851	0.78	0.3	1	0.96	0.6	1
0.12	1	b3050	0.98	0.66	0	1.94	0.64	0
0.1	1	b2943	0.93	0.19	1	1.39	0.23	0
0.11	1	b0965	0.94	0.29	1	1.21	0.55	0
0.07	1	b0783	2.06	0.34	1	1.45	0.35	0
0.04	1	b0831	1.63	0.4	0	1.59	0.33	0
0.13	1		0.46	0.18	1	0.22	0.47	1
0.15	1	b0737	0.7	0.1	1	1.14	0.29	1
0.11	1	b0775	1.36	0.31	0	1.47	1.58	0
0.07	1	b0821	1.02	0.16	0	1.59	0.8	0
0.06	1	b3213	1.33	0.22	0	1.45	0.32	0
0.13	1		1.16	0.34	0	1.35	0.49	0
0.08	1	b2597	6.66	1.21	1	8.85	15.93	1
0.08	1	b2340	1.66	0.55	1	1.35	0.79	0
0.12	1	b4045	1.52	0.2	0	1.61	0.61	0
0.16	1	b3295	0.43	0.27	1	0.24	1.21	1
0.06	1	b1294	0.53	0.17	1	0.93	0.33	1
0.06	1	b0450	1.09	0.35	0	1.3	0.55	0
0.18	1		1.37	0.22	1	1.25	0.37	1
0.11	1		1.4	0.51	0	1.81	0.39	0
0.22	1	b3975	0.6	0.41	1	1.25	0.32	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	n/a		1.28	0.37	0	1.39	0.35	0

	0.14	1 b1848	8.75	2.99	1	8.83	8.77	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.17	1 b3928	1.28	0.5	1	1.03	0.63	1
	0.04	1 b2748	0.42	0.09	1	0.91	0.54	1
	0.11	1	1.22	0.2	1	1.49	0.33	0
	0.04	1 b1685	1.48	0.16	1	1.71	0.5	0
	0.08 n/a	b1639	0.94	0.17	0	1.43	0.48	0
	0.09	1	1.56	0.78	0	2.1	2.14	0
	0.11	1 b2456	1.61	0.36	0	1.69	0.39	0
	0.05	1 b0119	0.93	0.21	0	1.48	0.39	0
	0.22 n/a		1.88	0.41	0	1.76	0.56	0
	0.13	1	1.4	0.45	0	1.79	0.6	0
	0.04	1 b1820	1.44	0.41	1	1.47	0.65	0
	0.05	1 b1841	0.52	0.1	1	0.68	0.22	1
	0.05	1	1.29	0.2	0	2.38	0.95	0
	0.11	0	1.47	0.53	0	1.85	0.9	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	0.09 n/a		0.38	0.06	1	0.7	0.33	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.04 n/a		1.41	0.26	1	0.81	1.24	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09 n/a	b2579	1.75	2.19	0	1.69	0.29	0
	0.13	1	1.46	0.29	0	0.88	7.04	1
	0.06	1	1.62	0.56	0	2.14	0.81	0
	0.08	1	1.95	0.53	0	1.13	1.08	0
	0.07 n/a		1.08	0.21	1	1.15	0.4	1
	0.09	1	1.2	0.49	0	1.05	1.31	0
	0.08	1	1.13	0.14	0	1.29	0.65	0
	0.1	1	1.07	0.22	0	1.42	0.55	1
	0.14	1	1.4	0.28	0	1.46	0.55	0
	0.14	1	1.52	0.32	0	1.98	0.63	0
	0.09 n/a		1.29	0.39	1	1.47	0.69	1
	0.05	1	0.76	0.08	1	1.29	0.71	1
	0.05	1 b1580	1.22	0.15	1	1.26	0.22	0
	0.2	1	1.21	0.32	0	1.29	0.37	0
	0.08	1	14.72	11.25	1	25.99	13.15	1
	0.05 n/a		1.79	10.92	1	2.34	1.69	1
	0.05	1	1.04	0.4	0	1.37	0.92	1
	0.03	1	1.43	0.32	0	1.71	0.39	0

0.07	1		1.49	0.58	0	1.29	0.42	0
0.11	n/a		1.94	0.53	1	1.46	0.6	1
0.06	n/a		1.05	0.1	1	0.66	6.34	1
0.14	1		1.33	0.23	1	1.31	1.72	0
0.07	1		1.23	0.5	1	1.15	15.41	0
0.07	1		1.34	0.26	1	1.37	1.31	1
0.06	1		1.17	0.35	0	1.25	0.49	0
0.09	n/a		1.02	0.36	0	1.6	0.58	0
0.15	1		0.53	0.1	1	1.09	0.68	1
0.05	1		1.26	0.28	0	1.39	0.34	0
0.04	1		0.66	0.15	1	1	0.69	1
0.06	1		1.51	0.19	0	2.13	0.63	0
0.15	1	b3560	0.41	0.21	1	0.88	0.26	1
0.24	1		1.66	0.44	0	1.56	0.75	0
0.11	1		1.15	0.33	0	1.51	0.89	0
0.13	1		1.14	0.3	0	1.49	0.51	0
0.07	1		1.07	0.14	1	0.91	1	1
0.18	1		1.3	0.33	0	1.64	0.64	0
0.1	1		1.32	0.85	0	1.26	0.31	0
0.08	1	b3248	0.95	0.35	1	1.1	0.34	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.13	1		1.28	0.66	0	1.1	0.48	1
0.1	1	b0997	1.84	0.43	0	1.79	0.5	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.06	1		0.88	0.34	0	1.92	1.62	0
0.11	1		1.74	0.4	0	1.3	0.5	0
0.07	1	b3728	0.74	0.55	0	1.04	0.17	1
0.1	1	b3666	1.39	0.22	0	1.35	0.26	0
0.05	n/a	b0045	1.28	0.3	0	1.67	0.38	0
0.1	1	b0091	1.92	0.22	1	1.26	0.24	1
0.05	1		1.23	0.11	0	1.43	0.39	0
0.07	1	b0082	0.83	0.44	1	0.92	0.28	1
0.15	1	b3231	0.37	0.1	1	0.15	0.06	1
0.07	1	b3256	0.19	0.1	1	0.17	0.18	1
0.05	1		1.7	0.26	0	1.63	0.6	0
0.07	1	b0655	0.38	0.12	1	0.27	0.21	1
0.09	1	b0688	0.47	0.09	1	0.22	0.21	1
0.1	1	b0180	0.59	0.41	1	0.9	0.38	1
0.06	0	b1541	1.67	0.89	0	1.77	0.65	0
0.2	1	b2042	0.31	0.32	1	0.26	0.19	1
0.11	1	b2069	1.28	0.57	0	1.5	0.79	0
0.09	1	b0207	1.08	0.27	1	0.94	0.38	1
0.06	1		1.47	0.55	0	1.97	0.35	0
0.05	1	b2077	1.18	0.26	0	1.53	0.21	0
0.07	1		1.42	0.5	0	1.58	0.64	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.14	1	b2665	1.6	0.64	0	1.89	0.74	0
0.05	n/a		1.45	0.32	0	1.97	0.57	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.19	n/a		1.34	0.37	0	1.56	0.68	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0



	0.31	0 b3299		0.57	0.17	1	0.55	0.27	1
	0.04	1		0.6	0.11	1	0.26	0.16	1
	0.12	1		1.31	0.33	0	1.02	0.51	1
	0.14	1		1.49	0.38	0	1.56	0.23	0
	0.1	1		0.53	0.3	1	0.57	0.41	1
	0.16	0 b1060		3.49	1.24	1	2.78	1.16	1
	0.1	1 b1105		0.61	0.48	1	0.69	0.34	1
	0.05	1		1.51	0.75	0	1.46	0.35	0
	0.05	1 b1789		1.37	0.32	0	1.46	0.62	0
	0.08	1		0.85	0.28	0	0.84	0.61	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b4051		0.98	0.06	1	0.66	0.34	1
	0.1	1 b4076		1.89	0.59	0	1.95	0.62	0
	0.13	1 b2745		0.67	0.26	0	0.85	0.42	1
	0.12	1 b4027		1.3	1.59	0	1.3	0.29	1
	0.12	1		1.34	0.23	0	0.98	0.17	1
	0.08	1		1.48	0.55	0	1.34	0.38	1
	0.07	1 b2323		0.51	0.1	1	0.41	0.29	1
	0.07	1		1.07	0.25	0	1.31	0.5	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.25	1 b3891		0.6	0.13	1	0.76	0.37	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.22	1 b4041		0.69	0.39	1	0.52	0.27	1
	0.06	1		1.32	0.14	0	1.7	0.54	0
	0.11	1		1.86	0.32	0	1.77	0.36	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.12	1		2.07	0.86	0	1.79	0.68	0
	0.08	1 b2458		1.26	0.24	0	1.67	0.42	0
	0.07	1 b1131		0.39	0.22	1	0.27	0.12	1
	0.08	1 b1655		0.5	0.18	1	0.43	0.15	1
	0.1 n/a			1.58	0.29	0	1.79	0.81	0
	0.13	1 b2203		9.56	2.73	1	2.6	0.96	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1		1.37	0.08	0	1.5	0.07	0
	0.07	1 b2281		0.59	0.06	1	0.37	0.09	1
	0.09	1 b2301		1.2	0.2	0	1.69	0.46	0
	0.07	1 b1921		1.59	0.26	0	1.44	0.49	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.22	1 b1895		1.67	0.34	0	1.52	0.85	0
	0.07	1 b1744		1.53	1.03	0	1.66	0.41	0
	0.09	1 b1638		0.52	0.25	1	1.04	0.54	1
	0.09	1		0.63	0.18	1	0.68	0.17	1
	0.1	1		6.62	2.87	1	1.88	0.52	1
	0.07	1 b1634		0.59	0.12	1	0.76	0.99	1
	0.08 n/a			1.4	0.35	0	1.58	0.44	0
	0.07	1		1.85	7.52	0	1.19	0.41	0
	0.05	1 b1632		1.25	0.38	0	1.26	0.57	1
	0.05	1 b1658		0.51	0.29	1	0.68	0.41	1
	0.1	1 b1682		21.77	11.08	1	8.96	152.18	1
	0.12 n/a			0.48	0.2	1	0.23	0.14	1
	0.08	1 b1652		0.97	0.56	0	1.09	0.49	1

	0.08	0 b1600	1.41	0.07	0	1.69	0.43	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.1	1	1.08	0.38	0	1.34	0.31	0
	0.1	1 b2580	1.17	0.18	0	1.09	0.38	1
	0.07	1 b0399	0.74	0.16	0	0.95	0.59	1
	0.13	1 b0197	0.97	0.25	1	0.95	0.48	1
	0.21	1	1.37	0.5	0	1.57	0.86	0
	0.07	1	1.51	0.17	0	1.83	0.81	0
	0.04	1 b1916	1.72	0.36	0	1.32	0.39	0
	0.06	1 b1323	1.01	0.43	0	1.25	0.43	0
	0.05	1 b3457	1.64	0.45	0	2.17	0.84	0
	0.06	1 b1592	1.09	0.19	0	1.22	0.51	0
	0.18	1	1.39	0.48	0	1.18	0.23	1
	0.24	1	0.66	0.25	1	0.36	0.23	1
	0.08	1 b0414	1.25	0.18	1	0.92	0.5	1
	0.14	1 b4039	1.42	0.24	1	0.83	0.18	1
	0.08	1 b0060	4.71	2.87	1	2.09	1.29	1
	0.24	1 b3110	1.56	0.37	0	1.51	0.32	0
	0.35	1 b3384	0.74	0.23	1	0.84	0.25	1
	0.09	1	1.53	0.36	0	1.81	0.72	0
	0.07	1	1.11	0.27	0	1.66	1.24	0
	0.04	1 b0495	1.11	0.24	0	1.14	0.19	1
	0.1	1 b0602	1.53	0.56	0	1.61	0.44	0
	0.21	1 b2584	2.64	0.25	1	1.93	0.89	1
	0.12	1	0.9	0.24	0	1.05	0.2	1
	0.1	1 b3125	4.31	1.31	1	1.7	2.05	1
	0.15	1 b3160	1.31	0.45	0	1.5	0.76	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1	1.93	0.69	0	1.45	10.76	0
	0.04	1	1.83	0.92	0	2.57	1.14	0
	0.11	1	1.3	2.05	0	1.33	0.55	0
	0.04	1 b0522	1.25	0.55	0	1.36	0.31	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.06	1	1.64	0.37	0	1.6	0.85	0
	0.17	1 b3615	1.02	0.41	0	0.86	0.4	1
	0.12	1 b2308	1.28	0.42	0	1.41	0.5	0
	0.05	1	0.95	0.14	1	0.8	0.15	1
	0.05	1 b1264	1.47	0.33	0	1.3	0.39	0
	0.11	1 b2677	1.26	0.39	0	1.54	0.43	0
	0.18	1	1.51	0.62	0	1.72	0.41	0
	0.02	1 b0640	0.63	0.24	1	0.69	0.28	1
	0.1	1 b2454	1.48	0.3	0	1.53	0.6	0
	0.09	1 b3961	0.83	0.13	1	0.8	0.73	1
	0.06	1 b0761	1.15	0.24	1	1.15	0.44	1
	0.05	1	1.41	0.35	0	1.52	0.25	0
	0.11	0 b2674	2.04	0.65	0	2.24	0.69	0
	0.1	1 b1712	1.2	0.18	1	0.64	0.7	1
	0.09	1 b3255	0.13	0.08	1	0.12	0.09	1
	0.14	1	1.8	0.47	0	1.76	0.78	0
	0.09	1	1.26	0.55	0	1.13	0.44	0
	0.27 n/a		1.69	0.5	0	2.4	0.5	0
	0.11	0	1.98	0.88	0	1.32	0.69	1

0.12	1	b3735	0.27	0.07	1	0.07	0.06	1
0.12	1		1.23	0.21	0	1.35	0.14	0
0.08	1		1.46	0.38	0	2.04	7.3	0
0.09	1	b1876	0.21	0.14	1	0.23	0.16	1
0.1	1	b3243	1.04	0.22	0	1.29	0.49	1
0.17	1		1.72	0.54	0	1.65	0.32	1
0.14	1	b4142	0.91	0.27	1	0.45	0.17	1
0.07	1		1.74	0.65	0	1.55	0.63	0
0.14	1	b3884	1.15	0.2	1	1.06	0.71	1
0.24	1	b4000	0.79	0.19	1	0.38	0.48	1
0.22	1		1.27	0.74	0	1.69	0.21	0
0.06	1		1.5	0.24	0	1.95	0.85	0
0.1	1	b4117	1.17	0.56	0	1.29	0.46	0
0.09	1	b3764	0.39	0.05	1	0.28	0.1	1
0.09	0		1.63	0.25	0	2.07	0.71	0
0.04	1		1.56	0.64	1	1.3	0.35	1
0.05	1	b4053	0.67	0.69	1	0.83	4.74	1
0.13	1	b3203	1.79	0.14	1	0.85	0.29	1
0.06	1		1.38	0.35	0	1.76	0.34	0
0.04	1	b3841	1.16	0.29	0	1.36	0.37	1
0.06	1	b3823	1.31	0.54	0	1.22	0.38	0
0.08	1		1.15	0.3	0	1.66	0.77	0
0.07	1		1.15	0.25	0	2.17	0.78	0
0.06	1	b0007	1.49	0.25	1	1.11	0.37	1
0.06	1	b1081	1.07	0.2	0	1.22	0.41	1
0.09	1	b1938	1.16	0.53	0	1.44	0.4	0
0.1	1		1.35	0.24	0	1.58	1.62	0
0.12	1	b2826	1.48	0.27	0	1.14	0.44	0
0.1	1	b2845	1.1	0.28	0	1.19	0.48	1
0.07	1	b3929	1.42	0.09	1	1.4	5.25	1
0.11	1	b3835	0.77	0.21	1	0.67	0.39	1
0.07	1		1.74	0.27	0	1.88	0.58	0
0.05	1		1.27	0.38	0	1.12	0.43	0
0.06	1	b1479	0.49	0.07	1	0.43	0.17	1
0.11	1	b1180	0.74	0.24	1	0.88	0.77	1
0.06	1	b1828	1	0.16	0	1.07	0.26	1
0.04	1	b1853	1.04	0.13	1	1.08	0.3	1
0.09	1	b1867	0.76	0.2	0	1.08	0.37	1
0.07	1	b0494	0.68	0.11	1	0.56	0.28	1
0.05	1	b0519	1.45	0.63	0	1.48	0.36	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1	b1412	2.82	0.71	1	1.93	0.34	1
0.05	1		1.39	0.68	0	1.61	2.35	0
0.06	1	b1267	1.43	0.17	1	1.27	0.48	1
0.07	1	b1222	1.39	0.43	0	0.9	0.21	1
0.05	1	b1187	1.12	0.63	1	0.85	0.36	1
0.07	1	b1835	0.6	0.3	1	0.89	0.25	1
0.06	1		1.1	0.73	0	1.47	0.46	0
0.13	0	b0467	1.61	0.26	0	1.6	0.59	0
0.07	1		1.29	0.24	0	1.43	0.34	0
0.07	1		1.5	0.49	0	1.91	0.5	0
0.09	1	b4352	0.74	0.14	1	0.47	0.27	1

	0.05	1 b0393	0.68	0.19	1	0.61	0.34	1
	0.06	1	1.36	0.69	0	1.28	0.21	0
	0.11	1	1.15	0.27	0	1.1	0.42	1
	0.07	1	0.93	0.3	1	1.1	0.16	1
	0.06	1 b3010	1.09	0.17	1	1.08	0.34	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1	1.57	0.42	0	1.3	1.32	1
	0.07	1 b2595	0.48	0.24	1	0.78	0.3	1
	0.1 n/a		1.47	0.56	0	1.62	1.87	0
	0.1	1 b2685	0.61	0.24	1	0.79	0.33	1
	0.06	1	1.52	0.26	0	1.71	0.78	0
	0.11	1 b3570	0.69	0.27	1	0.64	0.79	1
	0.12	1 b3633	0.57	0.4	0	0.68	0.51	1
	0.06	1 b2797	0.48	0.07	1	0.44	0.21	1
	0.12	1 b2823	1.42	0.24	0	1.53	0.21	0
	0.07	1 b2147	1.05	0.16	0	1.28	0.31	1
	0.03	1 b2184	0.97	0.17	0	1.09	0.37	1
	0.09	1 b2193	0.85	0.22	0	1.28	0.31	1
	0.06	1 b1807	0.87	0.09	0	1.17	0.61	1
	0.15	1 b3306	0.31	0.1	1	0.08	0.05	1
	0.08	0 b0881	6.89	1.57	1	2.85	1.09	1
	0.03	1 b0871	1.24	0.15	0	1.42	1.02	1
	0.14	1 b3317	0.31	0.07	1	0.09	0.06	1
	0.07	1 b4156	0.87	0.25	0	1.17	0.35	1
	0.08	1 b4200	0.39	0.08	1	0.11	0.51	1
	0.04	1 b3053	1.07	0.2	1	0.76	0.27	1
	0.11	1	2.11	0.44	0	1.61	0.61	0
	0.07	1	0.56	0.18	1	0.87	1.02	1
	0.09	1	0.99	0.17	1	0.92	0.22	1
	0.08	1	1.74	0.19	1	0.71	0.66	1
	0.05	1 b0376	0.96	0.5	0	1.07	0.24	1
	0.07	1 b2100	1.45	0.62	0	1.12	0.36	0
	0.02	1 b2180	1.66	0.29	1	1.43	0.74	1
	0.08	0 b2187	0.94	0.11	0	1.16	0.8	1
	0.04	1 b2055	1.22	0.42	0	1.57	0.42	0
	0.07	0 b2135	1.66	0.45	0	1.84	0.56	0
	0.1	1 b3601	1.33	0.21	0	1.54	0.55	0
	0.11	1 b3522	1.07	0.2	0	1.52	0.33	0
	0.14	1 b3414	0.94	0.2	1	0.43	0.16	1
	0.09	1 b3106	1.51	0.34	1	1.6	0.41	1
	0.09	1 b1855	0.53	0.1	1	0.55	0.12	1
	0.05	1	1.34	0.54	0	1.72	0.38	0
	0.06	1	1.73	0.45	0	1.39	0.23	0
	0.04	0 b0791	2.41	0.7	0	1.98	1.58	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b0949	0.54	0.37	1	0.55	0.66	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.04	1 b0786	1.71	0.23	1	1.45	0.18	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1	1.63	0.3	0	1.8	0.16	0
	0.11	1 b3099	0.79	0.18	1	1.04	0.55	1
	0.07	1 b4192	1.33	0.23	0	1.37	0.46	0

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.11	1		1.58	0.45	0	1.24	0.58	0
	0.09	1	b0380	1.43	0.25	0	1.25	0.74	0
	0.11	1	b2343	0.89	0.12	1	1.22	0.52	1
	0.17	0	b3362	1.14	0.26	0	0.96	0.78	1
	0.09	1		1.27	0.25	0	1.29	0.61	0
	0.06	1		1.24	0.35	0	1.32	1.99	0
	0.1	1	b4202	0.38	0.11	1	0.15	0.06	1
	0.14	1	b3312	0.32	0.1	1	0.19	0.17	1
	0.12	1		1.15	0.31	0	1.5	0.47	0
	0.04	1		1.19	0.34	0	2.27	0.63	0
	0.07	1	b2947	0.64	0.16	1	0.69	0.48	1
	0.16	1		0.81	0.11	1	1.49	0.37	0
	0.06	1		1.4	0.18	0	1.57	0.36	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.06	1	b3354	0.92	0.13	0	1.27	0.38	0
	0.06	1		1.02	0.19	1	0.58	1.59	1
	0.06	1		1.57	0.35	0	1.67	0.76	0
	0.05	1	b1778	0.64	0.16	1	0.21	0.05	1
	0.02	1	b1768	0.77	0.06	1	0.99	0.49	1
	0.1	1	b4373	0.59	0.18	1	1.02	0.32	1
	0.07	1	b3753	1.31	0.42	1	0.98	0.33	1
	0.11	1	b1839	0.93	0.15	1	1.04	0.94	1
	0.3	0		1.66	0.76	0	1.51	0.18	0
	0.31	0		1.6	0.68	0	1.87	0.69	0
	0.11	0		1.25	0.49	0	1.56	0.87	0
	0.09	0		1.72	0.2	0	1.6	0.82	0
	0.13	1		1.5	0.29	0	1.27	0.25	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.06	n/a	b4130	3.37	0.51	1	1.16	0.25	1
	0.07	1	b0693	1.39	0.29	0	1.41	0.35	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.1	n/a	b0809	0.5	0.15	1	0.44	0.09	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.07	n/a		0.57	0.14	1	0.78	0.16	1
	0.03	1		1.71	0.67	0	1.5	0.44	0
	0.1	1		1.15	0.3	0	1.51	0.36	0
	0.14	1		1.26	0.23	0	1.43	0.2	0
	0.13	n/a		1.68	0.27	0	1.92	0.4	0
	0.05	n/a		1.06	0.2	1	1.29	0.52	1

0.1	1		1.99	0.29	1	1.16	0.33	1
0.08	1		1.55	0.79	0	1.43	0.56	0
0.08	1		1.74	0.6	0	1.34	0.34	0
0.06	n/a	b2468	1.01	0.94	0	1.25	0.32	1
0.13	n/a		1.02	0.17	0	1.17	0.16	1
0.07	1		0.81	0.1	1	0.83	0.32	1
0.06	1		1.37	0.41	0	1.08	0.39	1
0.25	0		1.46	1.08	0	1.6	1.23	0
0.06	1		1.54	0.39	0	1.52	0.67	1
0.12	1		1	0.32	1	0.93	1.11	1
0.07	1		1.47	0.3	0	1.06	0.42	1
0.06	1		1.24	0.57	0	1.35	0.74	0
0.04	1		1.51	0.4	0	1.27	0.53	0
0.07	1		1.75	0.53	0	1.38	0.34	0
0.07	1		1.43	0.28	1	1.39	1.04	1
0.07	n/a		1.42	0.86	0	1.27	0.4	0
0.04	1		1.29	0.1	0	1.8	0.58	0
0.04	1		1.19	0.35	0	1.67	0.61	0
0.09	1		1.83	0.67	0	2.05	0.99	0
0.09	n/a		1.39	0.37	0	1.32	0.46	0
0.04	1		1.36	0.12	0	1.2	0.58	1
0.06	1		1.72	0.36	0	1.79	0.27	0
0.1	1		1.68	0.49	0	1.39	0.53	0
0.02	1		1.49	0.26	0	1.58	0.42	0
0.15	1		1.36	0.28	0	1.19	0.58	0
0.14	1		1.08	0.51	0	1.62	0.93	0
0.07	n/a		1.26	0.27	0	1.63	1.34	0
0.07	1		2.09	0.3	1	1.33	0.63	1
0.06	1		1.43	0.29	0	1.63	0.62	0
0.09	1		1.5	0.38	0	1.15	0.74	0
0.08	1		1.53	0.25	0	1.69	0.91	0
0.13	1	b0131	0.56	0.25	1	0.73	0.25	1
0.05	1	b0196	0.64	0.29	0	0.55	0.22	1
0.05	n/a		1.12	0.33	0	0.86	0.45	1
0.05	1	b1270	1.2	0.34	0	1.2	0.45	1
0.16	1	b3726	1.31	0.29	0	1.26	0.48	0
0.08	1	b3754	1.46	0.34	0	1.41	0.63	1
0.6	1	b4390	1.45	0.46	0	0.96	0.21	1
0.06	1		1.38	0.2	0	1.85	1.15	0
0.08	1	b3342	0.13	0.25	1	0.1	0.05	1
0.05	1	b2436	0.97	0.15	0	1.4	0.28	0
0.13	1	b3201	1.02	0.26	1	0.96	0.33	1
0.07	1		0.93	0.43	0	0.95	0.22	1
0.1	n/a	b0097	0.56	0.51	1	0.93	0.33	1
0.06	1	b0123	1.86	0.23	1	1.07	0.33	1
0.07	1	b0146	0.91	0.21	0	0.94	0.13	1
0.08	1	b0176	0.79	0.25	1	0.76	0.2	1
0.08	1	b1543	1.33	0.27	0	1.93	0.9	0
0.06	1		0.86	0.28	0	1.18	0.44	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	n/a	b0693	1.75	0.23	0	1.26	0.7	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0

	0.09	0		1.57	0.34	0	1.79	1.54	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1 b4388		0.79	5.13	0	0.86	0.25	1
	0.06	1		0.26	0.61	1	0.1	0.03	1
	0.04	1 b0222		0.95	1.22	1	0.75	0.24	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1 b0959		1.94	0.72	0	1.4	0.84	0
	0.08	1		1.41	0.38	0	1.77	0.63	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.05	1 b0946		0.85	0.36	0	1.53	0.37	0
	0.18	1 b1631		1.13	0.43	0	1.28	0.45	1
	0.08	1 b1035		0.87	0.26	0	1.35	0.34	0
	0.06	1 b1087		0.76	0.19	0	0.83	0.24	1
	0.08 n/a	b1113		0.89	0.45	0	0.91	0.36	1
	0.08	1 b1627		0.96	0.39	0	1.27	0.4	0
	0.1	1 b3304		0.38	0.12	1	0.17	0.15	1
	0.09	1 b3359		1.13	0.18	0	1.2	0.88	1
	0.19	1 b3408		1.85	0.56	1	1.66	0.62	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.03	1 b0922		0.82	0.42	0	0.84	0.46	1
	0.11	1		1.84	0.5	0	1.43	0.45	0
	0.1	1		1.72	0.6	0	1.54	0.11	1
	0.2	0 b3964		1.39	0.46	0	1.43	0.4	0
	0.12	1		1.44	0.42	0	1.61	0.45	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.09	1 b3954		1.11	0.28	0	1.14	0.22	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.17	1		1.4	0.37	0	1.49	0.42	0
	0.08	1 b2346		0.61	0.14	1	0.72	0.16	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	1 b2493		1.15	0.21	0	1.68	0.5	0
	0.12	1 b4016		0.46	0.47	0	0.47	0.24	1
	0.09	1 b3939		1.2	0.24	0	1.02	0.21	1
	0.25	1 b3957		1.35	0.29	0	1.36	0.22	1
	0.1 n/a	b2742		0.99	0.29	1	0.58	0.24	1
	0.11	1 b2326		1.21	0.26	0	1.32	0.34	0
	0.05	1 b2426		0.91	0.15	1	0.56	0.12	1
	0.05	1		1.07	0.35	0	1.1	0.38	1
	0.07	1		1.4	0.43	0	1.35	0.44	0
	0.08	0 b1759		2.23	0.49	0	1.51	1.03	0
	0.19	1 b4162		1.26	0.36	0	1.55	0.49	0
	0.11	1 b4196		1.8	0.31	0	1.4	1.05	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.16	0 b2207		1.75	0.64	0	1.5	0.84	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	1		2.23	0.49	1	0.98	0.49	1
	0.18	1 b4355		1.24	0.33	0	1.14	0.41	0
	0.06 n/a			1.09	0.08	0	0.94	0.42	1
	0.08	1 b1646		1.58	0.45	0	2.41	1.22	0
	0.04 n/a	b1046		1.42	0.2	0	1.31	0.44	1

0.11	1	1.02	0.26	0	1.16	0.46	1
0.11	1 b2461	1.49	0.38	0	1.48	0.42	0
0.03	1 b1124	0.66	0.25	0	0.73	1.17	1
0.05	1 b1723	1.82	0.84	1	1.28	0.67	1
0.15	0 b4181	1.29	2.16	0	1.65	0.66	0
0.06	1 b1126	1.02	0.41	0	1.16	0.42	0
0.05	1	1.74	0.66	0	1.42	0.57	0
0.04	1 b1764	0.97	0.17	1	1.09	0.36	1
0.18	0 b1717	0.89	0.46	1	0.9	0.42	1
0.08	1 b1659	1.8	0.35	0	1.89	0.72	0
0.07	1 b3454	1.97	1.26	0	1.09	2.53	0
0.11	1 b0073	1.16	0.24	0	1.16	0.33	1
0.08	1	1.65	0.48	0	1.44	0.23	1
0.1	1 b4036	1.16	0.14	0	1.18	0.41	1
0.12	1 b3750	1.37	0.53	0	1	0.51	1
0.03	1 b0155	0.97	0.6	0	1.13	0.43	1
0.06	1	0.5	0.16	1	0.46	0.24	1
0.08	1 b0404	1.59	0.3	0	1.09	0.32	1
0.07	1	1.44	0.45	0	1.31	0.5	1
0.08	1 b2322	1.48	0.34	0	1.67	0.45	0
0.07	1 b1725	3.65	1.16	1	1.57	0.55	1
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.04	1	1.52	0.35	0	1.12	0.38	1
0.06	1 b2027	0.71	0.62	1	0.48	0.18	1
0.03	1 b3714	1.07	0.33	0	1.17	0.24	0
0.08	1 b0174	0.84	0.74	1	0.93	0.61	1
0.04	1 b2008	2.02	0.24	1	1.72	0.75	1
0.08	1 b0087	0.8	0.19	1	1.06	0.18	1
0.06	1 b2312	0.55	0.25	1	0.62	0.49	1
0.08	1 b3461	2.47	0.34	1	1.72	1.27	1
0.08	1 b3164	0.32	0.08	1	0.25	0.15	1
0.09	1 b2536	1.16	1.34	0	1.36	0.64	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.04	1 b0179	0.75	0.09	1	0.37	0.16	1
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.14	1	1.03	0.32	0	1.03	1.95	0
0.1	1	1.53	0.29	1	1.14	0.2	1
0.18	1 b3449	1.34	0.97	0	1.29	0.58	0
0.18	1 b3650	0.48	0.28	1	0.42	0.22	1
0.05	1	1.09	0.27	0	1.57	0.65	0
0.12	1	1.39	0.37	0	1.29	0.37	0
0.12	0 b2419	1.84	0.45	0	1.95	0.49	0
0.09	1 b0811	0.84	0.13	1	0.69	0.08	1
0.05	1 b0581	1.75	0.62	0	1.15	0.54	0
0.05	1	1.27	0.17	1	0.99	0.37	1
0.07	1 b2576	1.02	0.18	0	1.24	0.32	1
0.12	1 b3041	0.33	0.15	1	0.5	0.15	1
0.05	1 b4054	0.7	0.06	1	0.7	0.29	1
0.06	1	1.82	0.44	0	1.24	0.41	1
0.09	1 b2019	1.06	0.45	0	1.49	0.56	1
0.12	1 b0535	1.6	0.28	1	0.81	0.33	1
0.16	1 b3885	1.6	0.52	0	1.28	0.57	0



	0.13	1 b0857	1.36	0.32	0	1.43	0.49	0
	0.05	1 b0708	1.45	0.43	0	1.42	1.28	1
	0.18	1	1.33	0.31	0	1.52	0.4	0
	0.12	1 b0675	1.17	0.31	0	1.44	0.52	0
	0.09	1 b0714	1.1	0.23	0	1.73	1.02	0
	0.15	1 b3941	3.04	1.35	1	2.65	0.69	1
	0.08	1 b4063	2.28	0.61	0	1.63	0.67	0
	0.12 n/a		1.43	0.3	0	1.45	6.55	0
	0.08	1 b2552	0.9	0.25	0	0.9	0.36	1
	0.19	0	1.53	0.37	0	1.81	0.81	0
	0.09	1 b3994	1.45	0.38	0	1.26	0.64	1
	0.07	1 b3882	1.23	0.24	0	1.14	0.42	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1	1.44	0.31	0	1.87	0.91	0
	0.06	1 b1090	0.61	0.1	1	0.6	0.5	1
	0.07	1 b1286	0.36	0.51	1	0.75	0.55	1
	0.08	1 b2594	0.91	0.04	1	1.03	0.25	1
	0.06	1 b0029	1.14	0.23	0	1.26	0.51	0
	0.22	0	1.51	0.26	0	1.49	0.24	0
	0.12	1	2.15	0.36	0	1.27	0.32	1
	0.05	1	1.88	0.76	0	1.54	0.49	0
	0.03	1 b1258	1.79	0.25	0	1.78	0.57	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1 b0418	1.25	0.14	0	1.5	1.65	0
	0.07	1 b1335	1.39	0.52	0	1.54	5.94	0
	0.07	1	1.4	0.33	0	1.37	0.28	0
	0.06	1 b1813	0.67	0.24	0	1.35	0.45	1
	0.05	1 b1221	1.04	0.17	1	0.63	0.19	1
	0.13	1 b2821	1.42	0.35	0	1.42	0.23	0
	0.09	1 b2747	0.57	0.19	1	0.77	0.68	1
	0.08	1 b2735	1.31	0.2	0	1.28	0.66	0
	0.05	1	1.23	0.37	0	1.56	0.75	0
	0.06	1 b0049	0.61	0.12	1	0.73	0.22	1
	0.08	1 b3795	0.79	0.42	0	1.71	0.87	1
	0.15	1 b3779	0.42	0.27	1	0.69	0.3	1
	0.11	1 b3985	0.42	0.04	1	0.13	0.06	1
	0.08	1 b1175	0.63	0.11	1	0.38	0.15	1
	0.11	1	1.21	0.18	0	1.38	0.42	0
	0.1	1	1.95	0.7	0	1.54	0.49	0
	0.07	1 b4021	1.88	0.51	1	1.28	0.29	1
	0.03	1	1.38	0.32	0	1.68	0.34	0
	0.09	1 b3901	2.18	0.77	1	1.5	0.91	0
	0.08 n/a	b3828	1.59	0.37	0	1.42	0.34	0
	0.12 n/a		1.67	0.32	0	1.65	0.18	0
	0.03	1	1.13	0.2	0	1.11	0.72	1
	0.04	1 b1468	1.23	0.49	0	1.35	0.29	1
	0.06	1 b1429	1.02	0.39	0	1.14	0.41	1
	0.09 n/a		1.93	0.71	0	2.11	0.77	0
	0.11	1	1.48	0.2	0	1.91	0.68	0
	0.05	1 b0463	0.5	0.21	1	0.49	0.34	1
	0.05	1	1.31	0.33	0	1.67	0.48	0
	0.05	1 b1520	1.18	0.33	0	1.43	0.46	1

	0.11	1 b0909	0.66	0.19	0	1.08	0.73	0
	0.09	1 b0608	1.18	1.09	1	1.05	0.28	1
	0.12	1 b1248	0.7	0.25	0	0.85	0.38	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1 b1435	0.6	0.22	0	1.13	0.49	1
	0.08	n/a	0.52	0.07	1	0.55	0.24	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1 b1844	0.98	0.13	0	1.09	0.39	1
	0.09	1 b2799	1.21	0.37	0	1.55	0.57	0
	0.21	1	1.29	0.37	0	1.55	0.92	0
	0.07	1 b2913	0.9	0.22	1	0.91	0.34	1
	0.23	1 b2945	0.82	0.47	0	0.86	0.51	1
	0.07	1 b0434	0.32	0.15	1	0.31	0.07	1
	0.11	1 b3473	1.05	0.17	0	1.43	0.49	0
	0.06	1 b3532	1.05	0.19	1	0.84	0.91	1
	0.08	1 b3582	1.31	0.15	0	1.27	0.37	1
	0.05	1 b3612	0.67	0.19	1	1	0.42	1
	0.1	1 b2788	3.48	0.8	1	1.51	0.68	1
	0.08	1 b2817	0.42	0.14	1	0.58	0.16	1
	0.06	1 b2890	0.41	0.02	1	0.29	0.06	1
	0.09	1 b3492	0.91	0.77	0	1.31	0.39	1
	0.08	1 b2807	1.07	0.31	0	1.32	0.55	0
	0.22	n/a	1.44	0.45	0	1.67	1.53	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1 b3025	1.4	0.31	0	1.08	0.8	0
	0.06	1 b2841	1.21	0.25	0	1.5	1.04	0
	0.07	1 b2175	0.13	0.06	1	0.21	0.09	1
	0.09	1 b2040	1.03	0.35	1	0.7	0.22	1
	0.05	1 b2125	0.82	0.2	0	0.91	0.39	1
	0.22	1 b0877	0.41	0.09	1	0.26	0.14	1
	0.08	1 b3569	1.26	0.51	0	1.54	0.69	0
	0.17	0	1.24	0.18	0	0.92	0.99	1
	0.08	1 b3614	0.93	0.27	0	1.14	0.95	1
	0.09	1 b3499	0.95	0.13	1	1.13	0.35	1
	0.12	1 b3406	1.1	0.28	0	1.45	0.67	1
	0.08	1 b3177	0.75	0.11	1	0.8	0.14	1
	0.06	1	1.39	0.13	1	1.85	0.65	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b3166	0.77	1.35	1	0.95	0.36	1
	0.08	1 b3034	0.87	1.75	0	1.09	0.36	1
	0.11	1 b2958	0.95	0.18	1	0.61	0.19	1
	0.42	1 b2687	1.21	0.27	1	1.01	0.26	1
	0.11	1 b2141	1.22	0.29	0	1.71	0.61	0
	0.08	1	2.81	0.56	1	1.96	0.69	1
	0.14	1 b2183	0.8	0.29	0	1.07	0.38	1
	0.06	1 b2113	0.58	0.07	1	0.57	0.12	1
	0.11	1 b2390	15.94	7.42	1	3.59	4.26	1
	0.12	1 b3305	0.35	0.1	1	0.09	0.02	1
	0.09	1 b3363	0.17	0.05	1	0.29	0.21	1
	0.03	1 b4174	0.45	0.05	1	0.36	0.13	1
	0.09	1	1.25	0.2	0	1.35	0.73	0



n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.11	n/a		1.88	0.2	1	0.85	0.47	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.16	n/a	b2601	0.82	0.1	1	1.11	0.25	0
	0.08	1		1.49	0.45	0	1.26	2	0
	0.08	1		1.63	0.37	0	1.88	1.74	0
	0.06	1		1.29	0.22	1	0.67	0.23	1
	0.13	1		1.29	0.38	0	1.32	0.27	0
	0.06	1		1.17	0.27	0	1.17	0.35	1
	0.1	1		0.36	0.11	1	0.43	0.11	1
	0.06	n/a		0.98	0.29	1	1.15	1.22	1
	0.11	1		1.05	0.15	1	0.82	0.3	1
	0.19	1		1.44	0.32	0	1.29	0.36	0
	0.1	1		1.09	0.24	0	0.82	0.25	1
	0.06	1		1.28	0.44	0	1.59	0.56	0
	0.03	1		1.49	0.42	0	1.41	0.59	0
	0.11	1		1.33	0.18	0	1.33	0.37	0
	0.11	1		1.36	0.32	0	1.62	0.55	0
	0.16	n/a		1.19	0.35	0	1.76	0.47	0
	0.06	1		1.23	0.33	0	1.6	0.87	0
	0.06	1		1.1	0.33	0	1.14	0.52	1
	0.06	1		1.02	0.21	0	1.46	0.56	0
	0.12	1		1.36	0.21	0	1.75	0.46	0
	0.06	1		1.59	0.48	0	1.25	0.5	0
	0.09	1		1.18	0.31	0	1.16	0.35	1
	0.06	1		1.19	0.37	0	1.3	0.31	1
	0.08	1		0.96	0.24	1	0.9	0.49	1
	0.14	1		1.17	0.27	0	1.18	0.53	0
	0.27	1		1.19	0.68	0	1.47	127.9	0
	0.09	1		0.87	0.09	1	0.53	0.26	1
	0.07	1		1.01	0.22	0	1.08	0.25	1
	0.08	1		1.41	0.33	0	1.05	0.68	1
	0.07	1		0.98	0.15	0	1.1	0.99	0
	0.11	1		2.08	0.22	1	1.64	0.61	1
	0.11	1		1.38	0.29	0	1.7	1.01	0
	0.12	1	b3448	1.47	0.6	1	1.45	0.22	1
	0.09	1		1.27	0.18	0	1.58	0.47	0
	0.11	1		1.2	0.6	0	1.79	0.85	0
	0.06	1		1.19	0.15	0	1.74	1.31	0
	0.01	1		1.57	0.33	1	1.32	0.57	0
	0.04	1	b0149	0.77	0.13	1	0.88	0.72	1
	0.08	1	b0674	1.23	0.21	0	0.86	0.88	1
	0.09	1	b0694	1.35	0.22	0	1.43	0.53	0
	0.15	1		1.25	0.35	0	1.81	0.65	0
	0.02	1		1.16	0.32	0	1.8	0.89	0
	0.05	1	b3668	0.9	0.25	0	1.43	0.23	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.15	1	b3744	2.24	0.38	1	1.61	0.31	0
	0.09	1		1.17	0.66	0	1.78	0.58	0

	0.04	1 b0077	1.26	0.53	0	1.44	0.51	0
	0.09	1	1.37	0.49	0	1.46	0.68	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.09	1 b3210	0.85	0.2	0	1.1	0.27	1
	0.09	1 b3244	0.85	0.18	1	1.15	0.31	0
	0.12	0	0.46	0.1	1	0.65	0.17	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.04	1 b0680	0.57	0.08	1	0.62	0.9	1
	0.1	1 b0711	0.92	0.37	0	1.04	0.2	0
	0.05	1 b0194	0.26	0.28	1	0.55	0.32	1
	0.09	1	1.14	0.27	0	1.5	0.32	0
	0.17	1 b2057	1.28	0.44	0	1.64	0.56	0
	0.14	1	1.35	0.29	0	1.36	0.52	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.09	1 b0242	0.64	0.21	0	1.19	0.38	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.08	n/a	1.21	0.3	0	1.79	1.01	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.13	1	0.46	0.13	1	0.33	0.25	1
	0.13	1	1.1	0.44	0	1.24	0.35	0
	0.09	1 b0999	1.44	0.27	0	1.71	0.62	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.12	1 b2668	0.95	0.39	0	1.16	0.31	0
	0.09	1	1.42	0.28	0	1.63	0.35	0
	0.09	1 b3347	0.66	0.14	1	0.62	0.59	1
	0.55	1 b3392	1.2	0.53	0	1.54	0.32	0
	0.14	1	0.78	0.43	0	1.38	0.26	0
	0.1	0	1.43	0.39	0	1.52	0.42	0
	0.09	1 b1045	1.3	0.11	0	1.14	0.63	1
	0.05	1 b1095	0.29	0.02	1	0.23	0.11	1
	0.09	1 b1116	0.7	0.37	0	1.15	0.27	0
	0.07	0	1.3	0.24	0	1.78	0.67	0
	0.21	0 b3470	1.28	0.21	0	1.93	0.97	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.04	1 b4025	0.7	0.17	1	0.43	0.49	1
	0.08	1 b4061	1.95	0.55	1	1.61	0.3	0
	0.08	1 b4118	1.25	0.18	0	1.61	0.35	0
	0.12	1	1.51	0.46	0	1.09	0.91	0
	0.07	1 b4055	0.54	0.06	1	0.21	0.47	1
	0.06	1 b4078	0.72	0.18	1	0.75	0.76	1
	0.11	1 b4139	1.43	0.23	1	0.6	1.83	1
	0.03	1 b0863	0.62	0.34	1	0.71	0.26	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.05	1 b0873	1.08	3.83	0	1.61	1.44	0
	0.08	1	1.28	0.54	0	1.53	0.44	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.07	1	1.19	0.57	0	1.57	4.88	0
	0.12	1 b0855	1.04	0.26	0	1.8	0.58	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.07	1 b0154	0.37	0.18	1	0.77	0.13	1

	0.06	1 b0333	1.72	0.23	0	1.6	0.43	0
	0.08	1 b1704	0.84	0.43	0	1.3	0.6	0
	0.1	0 b1905	0.74	0.36	0	1.2	0.4	0
	0.07	1 b1962	1.39	0.5	0	1.76	0.7	0
	0.09	1 b2218	1.01	0.62	0	1.11	0.41	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.09	1 b2265	0.77	0.35	0	1.29	0.48	0
	0.12	1 b2295	1.39	0.24	0	1.74	0.6	0
	0.03	1	1.73	1.71	0	2.18	1.1	0
	0.05	1 b2741	1.02	0.15	1	0.52	1.4	1
	0.07	1 b0158	0.85	0.23	1	1.42	0.41	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.06	1 b1711	0.89	0.29	0	1.34	0.26	1
	0.05	1 b0963	0.85	0.2	0	1.11	0.31	1
	0.17	1	0.62	0.58	0	0.87	0.1	1
	0.27	1	0.57	0.47	1	0.63	0.28	1
	0.15	1 b1912	0.67	0.13	0	1.8	0.63	0
	0.07	1	0.8	0.2	0	0.98	0.49	1
	0.08	1 b1656	0.75	0.07	1	0.42	0.97	1
	0.08	1	1.31	1.48	0	1.44	0.62	0
	0.07	1 b3635	0.86	0.4	0	1.14	2.18	1
	0.08	1 b3625	1.27	0.49	0	1.6	0.5	0
	0.08	1 b1604	0.58	0.34	1	0.58	0.13	1
	0.06	1 b1612	0.67	0.08	1	0.26	0.56	1
	0.04	1 b1588	2.44	0.64	1	1.55	0.78	1
	0.08	1	1.84	0.77	0	1.52	0.24	0
	0.09	1 b0219	1.32	0.41	0	1.34	0.27	0
	0.12	1	2.82	0.72	0	2.19	0.54	0
	0.06	1	1.33	0.18	0	1.74	0.5	0
	0.07	1 b2011	0.63	0.39	0	1.49	0.4	0
	0.06	1 b0095	1.19	0.09	1	0.96	0.34	1
	0.06	1 b2283	0.53	0.13	1	0.54	0.15	1
	0.1	1 b0238	0.47	0.3	1	0.81	0.47	1
	0.18	0 b1949	1.65	0.52	0	1.76	0.32	0
	0.05	1 b1595	1.28	0.44	0	1.57	0.62	0
	0.1	1 b3341	0.1	0.03	1	0.08	0.05	1
	0.12	1 b3710	1	0.42	0	1.34	0.48	1
	0.1	1 b0387	1.5	0.47	0	1.79	0.46	0
	0.08	1	0.99	0.18	1	0.5	2.19	1
	0.18	1 b4065	1.23	0.14	0	1.33	0.39	0
	0.11	1	0.86	0.44	0	1.07	0.38	0
	0.16	0	1.64	0.5	0	1.08	1.32	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.06	1	1.31	0.35	0	1.5	1.12	0
	0.06	1 b2509	0.8	0.29	0	1.2	0.42	1
	0.13	0 b0488	1.41	0.23	1	1.37	0.55	0
	0.1	1	1.3	6.42	0	1.76	0.72	0
	0.1	1 b3040	1.17	1.98	0	1.63	0.91	0
	0.08	1 b3084	0.97	0.48	0	1.22	0.33	0
	0.14	1 b3148	0.96	0.24	0	1.21	0.16	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.05	1 b1214	0.56	0.12	1	0.63	0.15	1

0.06	1	b2256	0.24	0.06	1	0.36	0.24	1
0.11	1	b2432	0.57	0.23	0	1.25	0.48	0
0.09	1		1.19	0.26	0	1.55	0.51	0
0.13	1	b2664	1.44	1.55	0	1.95	0.99	0
0.1	1	b4328	1.01	0.26	0	1.32	0.31	0
0.1	1		1.56	0.77	0	1.58	0.72	0
0.09	n/a	b3560	0.25	0.19	1	0.73	0.57	1
0.05	1	b1235	0.75	0.17	1	0.81	0.42	1
0.04	1	b1293	0.8	0.22	0	1.1	0.25	0
0.1	1	b3905	1.29	0.4	0	1.42	0.36	0
0.06	1	b3862	1.19	0.54	0	1.4	0.42	0
0.05	1	b0790	1.81	0.48	0	2.09	0.69	0
0.21	1	b0778	1.8	0.41	0	1.66	0.88	0
0.08	1	b0050	0.63	0.32	0	1.42	0.35	1
0.14	1	b3896	1.57	0.42	0	2.02	0.39	0
0.14	1	b0636	0.63	0.21	0	0.8	0.86	1
0.09	1	b0212	1.22	0.23	0	1.05	0.19	1
0.06	1	b0908	0.62	0.51	0	0.85	0.37	1
0.04	1	b2310	0.77	0.32	0	1.24	0.36	1
0.11	1	b2617	1.05	0.11	1	0.97	0.44	1
0.17	0		1.44	0.31	0	2.18	1.19	0
0.13	0		1.48	0.42	0	2.26	0.82	0
0.12	0		1.6	0.52	0	2.03	1.21	0
0.12	1	b3498	0.86	0.17	0	1.48	0.27	0
0.09	n/a	b0709	1.44	0.38	0	1.58	0.6	0
0.17	1		1.16	0.13	0	2.11	0.79	0
0.06	n/a	b1906	1.05	1.43	0	1.35	0.38	0
0.11	1	b1322	1.14	0.61	0	1.59	0.49	0
0.1	1	b2570	1.2	0.2	0	1.56	0.51	0
0.05	1		1.16	0.23	0	1.78	0.78	0
0.06	1	b2786	1.11	0.29	0	1.12	0.39	1
0.16	n/a		1.22	0.29	0	2.06	0.73	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.13	0		1.45	0.16	0	1.89	0.64	0
0.09	1	b3179	2.75	0.79	1	1.3	1.73	1
0.04	1		1.77	0.34	0	1.54	0.5	0
0.14	1	b4072	1.63	0.3	0	1.85	0.53	0
0.1	1	b1944	1.09	0.31	0	1.26	0.61	0
0.04	1		1.08	0.16	0	1.26	0.22	0
0.08	1	b3966	0.65	0.38	1	0.78	0.4	1
0.07	1	b0606	24.89	9.73	1	10.15	8.6	1
0.06	1	b1245	1.39	0.3	0	1.47	0.59	0
0.07	1	b1511	1.89	0.44	0	1.66	0.27	0
0.1	1		1.05	0.23	1	1.48	0.41	1
0.05	1	b3813	1.65	0.33	1	1.14	1.56	1
0.1	1	b0046	1.43	0.36	0	1.39	0.86	0
0.14	1	b2909	0.97	0.18	1	0.77	0.64	1
0.03	1	b1940	0.86	0.27	0	1.17	0.12	1
0.06	1		0.88	0.12	1	1.06	0.14	1
0.07	1	b2416	0.72	0.1	1	0.33	0.4	1
0.03	1	b1271	0.45	0.11	1	0.44	0.33	1
0.13	1	b2777	0.98	0.28	1	0.8	0.43	1

0.17	1	b2765	0.79	0.24	0	0.94	0.74	0
0.09	1		1.62	0.8	0	1.73	0.57	0
0.08	1	b1878	1.03	0.47	0	1.93	1.7	0
0.08	1	b1342	1.05	0.34	0	1.49	0.47	0
0.07	n/a		1.4	0.38	0	1.64	0.62	0
0.04	n/a		0.45	0.06	1	0.44	0.85	1
0.07	1	b1817	1.86	0.29	1	1.5	1.65	1
0.07	1	b1838	1.15	0.24	0	1.72	0.54	0
0.09	1	b1865	0.58	0.23	1	0.98	0.27	1
0.08	1	b0861	0.68	0.19	1	1.51	0.44	0
0.11	1		1.46	0.27	0	1.76	0.34	0
0.04	1	b0928	0.11	0.12	1	0.19	0.1	1
0.07	1	b0587	1.28	0.23	0	1.44	0.37	0
0.07	1		1.26	0.26	0	1.7	0.5	0
0.08	1		1.11	0.25	0	1.74	0.45	0
0.06	1	b1243	0.44	0.2	1	0.44	0.1	1
0.07	1		1.27	0.28	0	1.75	0.42	0
0.04	1	b1815	1.01	0.16	0	1.4	0.2	0
0.07	1	b1378	3.16	0.61	1	2.23	1.18	1
0.04	1		1	0.14	0	1.34	0.38	0
0.07	1		1.11	0.44	0	1.08	0.66	0
0.08	1		0.74	0.27	1	1.18	0.64	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1		1.64	0.26	0	1.49	0.46	0
0.05	1	b0409	0.59	0.09	1	1.09	0.65	1
0.14	1	b2995	1.33	0.21	0	1.4	0.88	0
0.11	1	b2700	1.5	0.28	1	2.16	0.66	0
0.08	1		1.1	0.34	0	1.59	0.65	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1		0.86	0.14	0	1.21	1.19	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1	b2835	0.85	0.18	1	1.41	0.28	1
0.11	1	b2935	0.26	0.05	1	0.21	0.19	1
0.13	1	b2717	1.29	0.48	0	1.56	0.83	0
0.09	1	b3554	0.68	0.19	1	0.79	0.37	1
0.09	1	b3588	1.42	0.07	1	1.07	0.42	1
0.08	1		1.35	0.33	0	1.44	0.47	0
0.04	1	b2805	0.85	0.11	0	0.96	0.38	1
0.05	n/a		1.15	0.44	0	1.1	0.57	0
0.11	1	b2156	0.89	0.34	0	1.22	0.98	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1		0.98	0.27	0	1.6	0.61	0
0.11	1		0.38	0.06	1	1.32	0.61	0
0.1	1	b3315	0.28	0.05	1	0.25	0.22	1
0.08	1	b4175	0.51	0.09	1	0.69	0.28	1
0.11	1	b3294	0.29	0.05	1	0.56	0.36	1
0.06	1	b0878	0.76	0.2	1	1.41	0.74	1
0.1	1	b4177	0.43	0.06	1	0.38	1.42	1
0.05	1	b3124	5.97	1.17	1	2.44	2.09	1
0.08	1	b2996	1.14	0.28	0	1.52	0.61	0
0.09	1	b2703	2.94	0.79	1	2.36	0.55	1
0.14	1		1.2	0.17	0	1.63	1.51	0



	0.11	1 b4389	0.85	0.19	0	1.39	0.6	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1	1.22	0.25	0	1.88	0.79	0
	0.05	1 b2170	0.97	0.46	0	1.96	1.05	0
	0.04	1	0.69	0.05	1	0.64	0.25	1
	0.05	1	0.79	0.17	1	0.72	0.32	1
	0.25	1	1.6	0.33	0	1.06	0.8	0
	0.05	1 b1223	1.39	0.5	0	1.61	0.77	0
	0.09	1 b3575	1.35	0.36	0	1.74	0.6	0
	0.12	1 b3468	1.1	0.16	1	1.63	0.28	0
	0.16	1 b3222	2.06	0.36	1	1.54	0.37	0
	0.12	1 b3095	0.93	0.12	1	1.44	0.37	0
	0.08	1	0.71	0.39	0	1.25	0.22	0
	0.12	0	1.54	0.31	0	1.9	0.73	0
	0.05	1	0.65	0.2	1	1.42	0.29	1
	0.06	1 b0819	0.43	0.21	1	1.2	0.43	1
	0.08	1 b2907	1.2	0.29	1	1.31	0.6	1
	0.12	1	1.36	0.48	0	2.05	0.66	0
	0.08	1	1.04	0.8	0	1.37	0.57	1
	0.03	1 b0808	1.03	0.7	0	1.43	0.92	0
	0.09	1	1.51	0.25	0	1.8	0.67	0
	0.07	1	1.68	0.42	0	1.99	0.42	0
	0.08	1 b3037	0.44	0.08	1	0.56	0.16	1
	0.16	1 b2462	1.35	0.24	0	1.97	0.9	0
	0.17	1	1.15	0.13	1	1.1	0.71	1
	0.13	1 b3730	0.12	0.03	1	0.14	0.05	1
	0.04	1 b0422	0.76	0.22	0	1.46	0.82	0
	0.08	1 b2673	2.01	0.57	0	1.67	0.78	0
	0.07	1 b0443	0.75	0.15	1	1.49	0.98	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b3309	0.3	0.07	1	0.09	0.11	1
	0.12	1 b3311	0.28	0.03	1	0.56	0.5	1
	0.13	1 b4212	1.26	0.29	0	2.14	1.14	0
	0.05	1	11.83	2.2	1	3.08	1.92	1
	0.06	1	1.48	0.45	0	1.64	0.93	0
	0.08	1 b0952	0.97	0.24	0	1.18	0.29	1
	0.11	1 b2586	1.1	0.12	0	1.45	0.34	0
	0.13	1 b1643	0.84	0.18	0	1.51	0.44	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b3936	0.55	0.1	1	0.65	0.32	1
	0.19	1	1.29	0.35	0	1.78	0.87	0
	0.06	1	0.94	0.14	1	0.53	1.01	1
	0.09	1 b1259	1.51	0.35	0	1.66	1.03	0
	0.08	1 b1796	1.55	0.7	0	1.78	0.66	0
	0.08 n/a		1.43	0.17	0	1.87	1.31	0
	0.24	0 b0189	0.33	0.06	1	0.56	0.28	1
	0.14	1	1.3	0.36	0	1.85	0.52	0
	0.24 n/a		1.58	0.48	0	1.58	0.81	0
	0.14	0	1.43	0.47	0	1.86	1	0
	0.16	0	1.44	1.38	0	1.67	1.43	0
	0.19	0	1.29	0.26	0	2.01	0.85	0
	0.08	1 b1836	1.21	0.16	0	1.49	0.86	0

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
0.07		1	b0709	1.28	0.19	0	1.42	0.79	0
0.05	n/a			0.55	0.32	1	1.35	0.73	0
0.07		1		0.96	0.15	1	1.5	0.3	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
0.09	n/a		b0864	0.5	0.2	1	1.1	0.59	1
0.05		1		1.3	0.77	0	2.11	0.68	0
0.08		1		0.88	0.07	1	1.9	2.93	1
0.13		1		1.65	0.37	0	1.52	0.45	0
0.05		1		1.13	0.18	1	1.28	0.28	1
0.07		1		0.59	0.09	1	0.53	0.38	1
0.04		1		1.3	0.29	0	1.68	1.07	0
0.06		1		0.77	0.13	1	1.62	0.58	0
0.09		1		1.49	0.29	0	1.66	0.5	0
0.07	n/a			1.14	0.23	0	1.2	0.32	0
0.08		1		1.13	0.18	0	1.47	0.66	0
0.09		0		1.78	11.78	0	1.63	0.59	0
0.05		1		1.22	0.18	0	1.63	0.73	0
0.09		1		1.54	0.46	0	2.12	0.5	0
0.06		1		1.2	0.29	1	1.47	0.36	0
0.06	n/a			1.19	0.15	1	1.68	0.63	0
0.07		1		1.19	0.36	0	2.02	1.05	0
0.05		0		1.79	23.71	0	1.55	1.56	0
0.05		1		1.41	0.2	0	1.68	0.46	0
0.07		1		0.58	0.19	1	0.98	0.25	1
0.09		1		1.02	0.23	0	1.51	0.87	1
0.06		1		1.02	0.17	0	1.44	0.21	0
0.07		1		1.38	0.42	0	2.33	0.85	0
0.05		1		1.24	0.31	0	1.97	0.43	0
0.08		1		1.41	0.32	0	1.93	0.77	0
0.1		1		1.41	0.3	1	0.57	0.95	1
0.12		1		1.45	0.22	0	2.05	0.78	0
0.08		1		1.27	0.15	0	1.78	0.29	0
0.04		1		1.23	0.19	1	0.73	2.48	1
0.06		1		1.02	0.2	0	2.06	0.78	0
0.09		1		0.87	0.17	1	1.55	0.9	0
0.11		1		1.1	0.18	0	2.09	0.5	0
0.06		1		1.06	0.22	1	1.72	1.62	0
0.1		1		1.28	0.25	0	1.84	0.29	0

	0.12	1		1.13	0.18	0	1.3	0.75	0
	0.16	1		1.38	0.87	0	1.95	0.56	0
	0.08	1		1.33	0.16	0	1.56	0.29	0
	0.08	1 b0958		9.72	2.43	1	4.85	36.53	1
	0.14	1 b4032		1.1	0.11	0	1.22	0.34	0
	0.16	1 b0106		0.84	0.8	0	1.17	1.17	1
	0.08	1 b0128		0.96	0.99	0	1.51	0.54	0
	0.12	1 b0151		1.03	0.35	0	1.9	0.56	0
	0.04	1 b0198		0.96	0.14	1	1.06	0.91	1
	0.21	1 b3252		0.89	1.48	0	0.94	0.2	1
	0.16	1		1.11	0.14	0	1.13	0.29	1
	0.08	1 b0678		21.75	8.77	1	19.64	11.48	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.2	0 b3703		1.01	0.3	0	1.7	0.69	0
	0.06	1		1.37	0.49	0	1.62	0.54	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.13	1 b3713		1.08	0.18	0	1.41	0.34	0
	0.16	1 b3751		1.46	0.17	1	1.49	1.37	1
	0.24	1		0.74	0.14	1	0.99	0.53	1
	0.1	1 b0178		0.82	0.05	1	0.58	0.32	1
	0.08	1 b0083		0.86	0.11	1	0.9	0.4	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.13	1 b2660		0.63	0.13	1	1.33	0.85	1
	0.06	1 b1598		1.45	0.59	0	1.3	0.4	0
	0.16	1 b3319		0.26	0.06	1	0.23	0.33	1
	0.17	0 b3369		1.12	0.36	0	1.64	0.56	0
	0.04	1 b3411		1.31	0.37	0	1.78	0.41	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	n/a b3353		0.8	0.42	0	1.45	0.39	1
	0.08	1 b3401		1.15	0.36	1	1.09	0.97	0
	0.07	1		1.18	0.27	0	1.39	0.37	1
	0.07	1		1.03	0.26	0	1.6	0.39	0
	0.08	1 b2062		1.26	0.33	0	1.22	0.93	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1 b3450		1.23	0.53	0	1.72	0.27	0
	0.06	1 b2064		0.72	0.24	1	0.97	0.38	1
	0.08	1		1.43	0.46	0	1.79	0.82	0
	0.03	1		1.78	0.51	0	1.57	0.48	0
	0.06	1		2.59	0.47	1	3.1	1.04	1
	0.07	1 b2056		1.28	0.37	0	1.87	0.63	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	1		1.39	0.49	0	1.55	0.81	0
	0.12	1 b0846		1.29	0.46	0	1.74	0.49	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	1 b0868		0.62	0.32	0	1.21	0.22	0
	0.18	1 b2530		0.92	0.15	1	0.64	1.09	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	1 b2508		0.38	0.15	1	0.61	0.2	1

	0.12	1 b0916		1.2	0.3	0	1.46	2.04	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1 b2723		1.37	0.34	0	1.82	1	0
	0.07	1		1.47	0.56	0	1.46	0.59	0
	0.11	1 b2465		0.81	0.26	0	0.61	0.24	1
	0.05	1		5.49	1.19	1	4.79	16.52	1
	0.11	0 b0919		1.7	0.52	0	1.54	1.19	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.13	1 b4049		1.14	0.26	0	1.44	0.28	0
	0.11	1		1.55	0.4	0	2.4	1.17	0
	0.11	1 b2278		0.58	0.26	1	1.13	0.61	1
	0.12	1		1.47	0.38	0	2.17	0.91	0
	0.1	1 b1002		2.2	0.38	1	1.67	0.61	1
	0.1	1		2.27	0.46	0	1.71	0.86	0
	0.07	1		1.18	0.11	1	0.85	0.35	1
	0.05	1 b0954		0.36	0.12	1	0.68	0.21	1
	0.08	1		1.33	0.99	0	1.44	0.27	0
	0.16	1		1.3	0.4	0	1.53	1.66	0
	0.11 n/a	b1956		1.76	0.7	0	1.95	0.68	0
	0.08	1		1.39	0.43	0	1.55	0.26	0
	0.07 n/a			1.5	0.44	0	1.77	0.53	0
	0.1	1 b1958		1.35	0.27	0	1.44	0.32	0
	0.11	1 b2015		0.9	0.27	0	1.12	0.38	0
	0.03	1		1.25	0.28	0	1.61	9.89	0
	0.06	1		1.24	0.51	0	1.35	0.5	0
	0.12	1		1.47	0.68	0	1.64	0.58	0
	0.13 n/a	b1086		0.87	0.25	0	1.26	0.74	0
	0.07	1 b1073		0.63	0.21	1	1.39	0.66	0
	0.23	1 b3340		0.21	0.02	1	0.18	0.45	1
	0.08	1		1.21	0.32	0	1.32	0.27	0
	0.1	1		1.31	0.23	0	1.53	1.01	0
	0.09	1		1.22	0.31	1	0.4	1.23	1
	0.13	1		1.25	0.29	0	1.62	0.42	0
	0.16	1 b4013		0.96	0.49	0	0.88	0.47	1
	0.09	1 b0102		0.56	0.22	1	1.14	0.56	1
	0.08	1 b2257		0.78	0.2	0	1.79	0.4	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.07	1 b1650		1.14	0.17	1	0.79	1.48	1
	0.11	1 b0401		0.8	163.76	0	1.77	0.61	0
	0.09 n/a			1.95	0.66	0	1.51	0.61	0
	0.07	1 b4033		1.26	0.34	0	1.45	0.36	1
	0.15	1 b0243		0.96	0.45	0	1.32	3.49	0
	0.13	1 b0121		0.7	0.24	1	0.92	0.58	1
	0.13	1		2.04	0.17	1	1.17	1.44	1
	0.13	1 b2388		1.08	0.27	0	1.83	0.66	0
	0.05	1 b2262		0.69	0.22	1	1.17	0.81	0
	0.12	1 b2251		1.04	0.38	0	1.53	0.27	0
	0.07	1 b2533		0.22	0.13	1	0.37	0.3	1
	0.14	1		1.55	0.58	0	1.71	0.84	0
	0.05	1 b0524		0.52	0.19	1	0.97	0.46	1

n/a			n/a		0	n/a		0	
n/a			n/a		0	n/a		0	
	0.17	1 b4380		1.84	2.05		1.96	1.12	0
	0.19	1 b3608		0.65	0.11	1	1.1	0.23	1
	0.08	1 b3524		1.12	0.58	0	1.62	0.38	0
	0.08	1 b3417		1.1	0.19	1	1.51	0.54	1
	0.07	1		4.79	1.91	1	2.01	0.64	0
	0.12	1		0.64	0.1	1	1.13	0.88	0
	0.08	1 b0889		1.37	0.27	1	0.92	1.16	1
	0.08	1 b0577		0.77	0.4	0	0.91	4.56	0
	0.11	1 b4234		0.66	0.18	1	0.99	0.53	1
	0.13 n/a			0.93	0.16	1	1.11	0.98	0
	0.19	1 b3643		0.47	0.56	0	1.23	0.55	1
	0.08	1 b3068		1.25	0.27	0	1.73	6.25	0
	0.17	1		1.46	0.54	0	1.64	0.84	0
	0.14	1 b3644		0.59	0.15	1	1.07	0.49	0
	0.19 n/a			1.66	0.33	0	2.12	0.96	0
	0.07	1 b0078		1.07	0.36	0	1.69	0.71	1
	0.17	1		0.89	0.18	0	0.94	4.13	0
	0.09	1 b0726		0.81	0.29	1	0.39	6.17	1
	0.12	1 b4120		1.26	0.26	0	1.49	0.4	0
	0.1	1 b2608		0.55	0.1	1	0.23	0.14	1
	0.06	1		1.73	0.51	0	1.84	0.49	0
	0.11	1 b2020		1.24	0.48	0	1.36	0.37	0
	0.13	1 b0241		1.37	0.41	0	1.45	0.26	0
	0.08	1 b0480		0.82	0.12	1	0.92	0.27	1
	0.1	1 b0945		0.43	0.32	1	0.53	0.48	1
	0.13	1		1.29	0.72	1	0.96	0.89	1
	0.13	1 b3917		1.32	0.25	0	1.61	0.83	0
	0.13	1 b0659		0.5	0.33	0	0.96	0.11	1
	0.09	1		1.32	0.29	0	1.6	0.53	0
	0.14	1		1.45	0.48	0	1.9	1.07	0
	0.13	1		1.35	0.4	0	1.77	0.44	0
	0.08	1 b1917		1.29	0.33	0	1.49	0.6	0
	0.08	1		1.37	0.19	0	1.27	0.63	0
	0.15 n/a			1.67	0.44	0	1.68	0.78	0
	0.11	1		1.42	0.82	0	1.54	0.19	0
	0.13 n/a			2.19	0.57	0	1.95	1.12	0
	0.07	1 b4006		0.77	0.09	1	1.05	3.73	1
	0.09	1 b2523		0.87	0.12	1	0.54	1.37	1
	0.17	1		1.46	0.44	0	2.74	1.56	0
	0.07	1		1.17	0.18	0	1.43	0.46	0
	0.06	1		1.55	0.32	0	2.14	0.48	0
	0.1	1 b1093		0.51	0.09	1	0.48	0.47	1
	0.08	1		1.33	0.4	0	1.2	0.5	1
	0.09	1 b2599		1.16	0.32	1	0.9	0.91	1
	0.12	1 b0006		2.31	0.83	1	2.22	2.16	1
	0.2	1		1.84	0.69	0	2	0.41	0
	0.08	0		1.3	0.57	0	1.37	0.69	0
	0.19	0 b3894		1.24	0.21	1	1.87	3.07	1
	0.19	1 b3832		1.08	0.13	1	1.31	0.41	1
	0.12	1 b3803		1.03	0.1	1	0.57	2.44	1

0.14	1	b2925	0.75	0.08	1	0.47	5.52	1
0.12	1	b1945	1.16	0.3	0	1.06	0.21	0
0.12	n/a		1.21	0.4	0	1.33	0.46	0
0.08	1		1.53	0.26	0	1.39	0.4	0
0.1	1	b3169	0.73	0.19	1	0.33	1.06	1
0.1	1	b2796	0.41	0.07	1	0.25	0.34	1
0.03	1		1.23	0.37	0	1.49	0.8	0
0.08	1	b3839	0.84	0.46	0	1.07	0.44	1
0.1	1	b3822	0.83	6.84	1	0.99	0.41	1
0.16	1	b3820	0.58	0.24	0	1.3	51.43	0
0.16	1	b0475	8.32	3.01	1	1.83	1.6	1
0.12	n/a	b3980	0.53	0.15	1	0.21	1.01	1
0.09	1	b1939	0.74	0.52	0	0.74	0.8	1
0.11	1		1.24	0.17	0	1.58	0.31	0
0.15	1	b2825	1.14	0.38	0	1.34	0.5	1
0.12	1		1.34	0.22	1	1.93	1.03	0
0.1	1	b0489	1.54	0.11	1	1.59	0.48	0
0.06	1	b0515	1.23	0.07	1	1.56	0.91	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1		1.09	0.5	0	2.2	0.93	0
0.11	1	b1277	1.89	0.36	1	2.21	1.81	1
0.04	1	b1227	3.17	1.01	1	1.74	0.48	0
0.06	1	b1191	0.82	0.22	1	1.69	0.51	1
0.06	1	b1821	1.03	0.31	0	1.82	0.44	0
0.08	1		1.57	0.53	0	1.88	0.51	0
0.17	1		1.29	0.15	0	1.64	0.88	0
0.04	1	b0477	0.69	0.22	1	0.9	0.51	1
0.14	1		0.97	0.42	0	1.18	0.59	0
0.1	1	b1526	1.14	0.97	0	1.62	4.24	0
0.09	1	b0903	1.55	0.24	1	0.9	2.08	1
0.1	1		1.25	0.21	0	1.68	0.93	0
0.09	1		1.14	0.26	0	1.59	0.64	0
0.12	1		1.07	0.32	0	1.27	0.18	0
0.14	1	b3500	1.53	0.15	1	1.16	1.15	1
0.11	1		1.41	0.19	1	2.79	4.96	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1		0.56	0.24	1	0.79	0.31	1
0.09	1	b2784	1.25	0.21	1	1.3	1.07	1
0.05	1		1.06	0.28	1	1.18	0.25	1
0.11	n/a		1.11	0.04	0	1.13	0.42	0
0.15	n/a		1.61	0.6	0	1.42	0.84	0
0.05	1	b0451	1.29	0.34	0	1.7	0.47	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b3564	1.28	0.25	1	1.11	0.44	1
0.06	n/a		1.54	0.52	0	1.57	0.72	0
0.29	0	b4199	1.51	0.2	0	1.63	0.39	0
0.19	1	b0388	1.07	0.24	0	1.4	0.77	0
0.12	1	b0419	2.04	0.36	1	1.72	1.34	0
0.16	n/a	b3008	1.28	0.32	1	1.35	0.12	1
0.18	1	b2719	1.51	0.42	0	1.33	0.56	0
0.14	1	b3571	1.33	0.54	0	1.75	0.73	0
0.15	1	b3221	1.59	0.9	0	1.76	0.61	0

0.17	1	b3146	0.77	0.22	0	1.59	0.54	0
0.11	1	b3002	0.97	0.15	0	1.1	0.42	0
0.1	1		1.33	0.37	0	1.73	0.37	0
0.1	1	b2672	1.71	0.47	0	2.52	1.09	0
0.06	1	b2157	1.49	0.44	0	1.68	1.01	0
0.15	n/a	b0374	1.68	0.51	0	1.7	0.35	0
0.09	1		1.38	0.18	0	2.05	1.57	0
0.14	0		1.77	1.16	0	1.67	0.57	0
0.1	1	b2097	1.56	0.16	0	1.39	0.54	0
0.11	1	b2140	1.38	0.3	0	1.48	0.43	0
0.18	1	b3297	0.35	0.09	1	0.22	0.63	1
0.09	1	b2052	1.17	0.49	0	1.91	0.37	0
0.13	1		0.57	0.46	0	0.85	1.85	1
0.36	1	b0213	1.1	0.25	1	1.6	0.76	0
0.17	1	b3538	1.24	0.24	0	1.43	0.37	0
0.16	1	b3441	1.61	0.34	0	1.97	0.76	0
0.13	1	b3189	0.57	0.08	1	0.92	0.79	1
0.2	1	b4195	1.32	0.26	0	1.52	0.84	0
0.11	1	b4252	1.26	0.13	0	1.7	0.39	0
0.14	1		0.83	0.18	1	1.09	0.15	1
0.16	1	b3648	0.67	0.4	1	0.77	0.38	1
0.16	1	b3180	0.97	0.19	1	1.14	0.65	1
0.1	1	b3097	0.69	0.11	1	0.83	0.38	1
0.13	1		0.88	0.48	0	1.3	0.19	0
0.12	1		1.16	0.12	0	1.38	0.52	0
0.07	1	b3089	1.31	0.15	0	1.59	0.43	0
0.09	1		0.49	0.22	1	0.85	0.3	1
0.07	1	b0125	0.28	0.1	1	0.59	0.21	1
0.05	1		1.58	0.5	0	1.39	0.26	0
0.13	1	b4155	0.73	0.26	0	1.26	0.35	1
0.09	1		1.39	0.66	0	1.63	0.53	0
0.06	1	b1529	0.69	0.26	1	1.12	1.21	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1	b0787	1.39	0.46	0	1.65	0.43	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1		1.16	0.25	0	1.46	0.42	0
0.21	1	b2792	0.53	0.21	1	1.22	0.61	1
0.11	n/a	b2940	0.44	0.09	1	1.12	1.61	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1		1.37	0.54	0	1.76	0.41	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.17	1	b4068	0.43	0.06	1	1.36	0.47	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.27	1	b3302	0.44	0.05	1	0.43	0.49	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1		1.08	0.3	0	1.38	0.74	0
0.12	1	b1481	37.8	12	1	7.85	7.01	1
0.11	n/a		1.95	0.28	0	1.64	0.52	0
0.17	1		1.31	0.44	0	1.89	0.47	0
0.07	1	b0884	0.42	0.07	1	0.61	0.38	1





	0.14	1		1.5	0.58	0	2.01	0.59	0
	0.11	1		1.51	0.39	0	1.19	0.85	0
	0.04	1		1.51	0.25	0	1.68	0.52	0
	0.1	1		1.9	0.72	0	1.89	0.66	0
	0.1	1		0.9	0.35	0	1.38	0.15	0
	0.09	1		1.15	0.2	0	1.65	0.39	0
	0.09	1		1.31	0.21	1	1.45	0.31	0
	0.06	1		1.43	0.53	0	1.71	0.67	0
	0.12	1		1.11	0.21	0	1.36	0.41	0
	0.06	n/a		1.18	0.39	0	1.45	0.42	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.19	0	b1207	1.49	0.29	0	1.96	0.68	0
	0.15	1	b0066	0.98	0.14	0	1.03	1.01	1
	0.12	1	b3224	1.77	0.33	1	1.34	0.78	0
	0.1	1	b3249	0.83	0.17	1	1.29	1.36	0
	0.11	1	b0167	1.09	0.26	1	0.95	0.49	1
	0.07	1	b0676	3.67	0.91	1	4.03	1.82	1
	0.08	n/a	b3265	1.78	0.48	0	1.47	0.6	0
	0.07	1	b0187	1.47	0.32	0	1.54	0.46	0
	0.07	n/a	b1536	1.77	0.42	0	1.22	0.75	0
	0.08	1	b1928	1.59	0.22	0	1.35	0.76	0
	0.15	1	b3619	1.34	0.13	1	0.63	0.17	1
	0.03	1		1.2	0.23	0	1.74	0.67	0
	0.05	1	b1927	1.5	0.31	0	1.25	0.26	0
	0.14	1		1.55	0.38	0	1.75	0.77	0
	0.08	1		1.55	0.52	0	0.95	0.23	1
	0.15	1	b0026	0.49	0.08	1	0.36	0.1	1
	0.16	0		1.61	0.6	0	1.32	5.83	0
	0.11	1	b3193	0.79	0.49	0	0.62	0.45	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.12	0	b0953	1.53	0.38	1	1.25	0.9	1
	0.11	1		1.86	0.5	0	1.46	0.24	0
	0.04	1	b1049	0.7	0.21	1	0.91	0.23	1
	0.05	1	b1098	0.91	0.1	1	1.05	0.53	1
	0.06	1	b1119	1.33	0.13	1	1.2	0.49	0
	0.11	1		1.52	0.5	1	1.48	4.4	1
	0.02	1	b1084	0.63	0.23	1	0.27	0.11	1
	0.09	1	b1110	1.1	0.3	0	1.14	0.25	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.06	1	b3465	1.03	0.2	0	1.28	0.4	1
	0.13	1		2.79	0.67	1	2.64	1.38	1
	0.13	1		1.03	0.23	0	1.29	2.19	1
	0.08	1	b1780	1.01	0.27	0	0.94	0.24	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1	b0002	1.3	0.3	0	1.05	0.26	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	1		1.08	0.41	0	1.3	0.45	1

	0.1	1		1.14	0.33	0	1.04	2.66	0
	0.06	n/a		1.6	0.52	0	1.1	0.93	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1		1.06	0.59	0	0.96	0.23	1
	0.07	1		1.41	0.67	0	1.86	0.21	0
	0.09	1 b2342		0.97	0.48	0	1.22	0.62	0
	0.11	1 b2410		1.12	0.36	0	1.55	0.46	0
	0.08	1		1.29	0.17	0	1.33	0.35	0
	0.11	1		1.6	0.49	0	1.05	0.91	1
	0.05	1 b0911		0.23	0.05	1	0.1	0.03	1
	0.08	1		1.24	0.7	0	1.25	0.25	0
	0.12	1 b0885		1.24	0.26	0	1.53	0.32	0
	0.07	1 b2556		1.4	0.29	0	1.19	0.35	0
	0.17	0		0.99	0.19	0	1.8	0.5	0
	0.11	0 b3946		1.61	0.22	0	1.36	0.4	0
	0.16	0		0.83	0.35	0	1.17	0.3	1
	0.09	0 b4140		1.44	0.58	0	2.32	0.8	0
	0.07	1 b2476		0.64	0.41	1	0.91	0.26	1
	0.12	1 b2522		0.61	0.09	1	0.5	0.52	1
	0.06	1		1.16	0.34	0	1.43	0.49	0
	0.22	1		2.15	0.45	1	1.65	0.37	0
	0.06	1 b3926		1.82	0.39	1	0.79	1.17	1
	0.17	1 b3959		1.44	0.29	0	1.42	0.7	0
	0.13	1 b2241		3.73	1.19	1	1.58	1.13	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.13	1 b4350		1.59	0.62	0	1.14	0.27	0
	0.07	1 b1889		1.58	0.68	0	1.23	0.4	0
	0.11	1 b1726		2.15	0.44	1	1.15	0.3	1
	0.12	1 b0334		1.15	0.11	0	1.28	0.42	0
	0.09	1 b4043		8.33	1.56	1	3.96	1.74	1
	0.15	1		21.92	3.96	1	7.08	3.35	1
	0.06	0 b1641		0.76	0.1	1	0.85	0.21	1
	0.09	1		1.21	0.23	0	1.31	0.59	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1		1.45	0.27	0	1.85	0.69	0
	0.12	1		1.45	0.22	1	1.12	0.74	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.12	1 b4240		0.74	0.07	1	0.55	0.41	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	1		1.78	0.33	0	1.38	0.42	0
	0.14	1		1.25	0.3	0	1.21	0.73	0
	0.11	1		1.06	0.27	0	1.12	0.47	0
	0.12	1		1.2	0.35	0	1.1	0.3	0
	0.07	1		1.46	0.74	0	1.63	0.6	0
	0.07	1 b0043		1.5	0.2	0	1.5	0.54	1
	0.09	1 b0113		1.23	0.16	0	0.89	0.16	1
	0.1	1		2.27	0.31	1	1.45	0.29	1
	0.09	1 b2289		1.39	0.55	0	1.26	0.7	0
	0.07	1 b1709		1.07	0.38	1	1.03	1.12	1
	0.13	1 b0841		1.17	0.22	1	1.35	0.23	0
	0.1	1 b1628		1.13	0.47	0	1.41	1.41	0

0.06	1	b1587	1.66	0.37	0	1.51	0.34	0
0.04	1	b1585	1.22	0.23	0	1.22	0.41	0
0.06	1		1.7	0.36	0	1.52	1	0
0.04	1		1.24	0.33	0	1.33	1.03	0
0.11	1	b0405	0.77	0.2	1	0.97	0.4	1
0.11	1		0.6	0.13	1	0.58	0.15	1
0.08	1	b2318	0.73	0.2	1	0.99	0.66	1
0.06	n/a		1.78	0.72	0	1.3	0.57	0
0.1	1		1.4	0.39	0	1.2	0.35	1
0.03	1	b0448	1.67	0.31	1	1.45	0.6	1
0.07	1		1.4	0.43	0	1.4	0.39	0
0.08	0		1.69	0.42	0	1.53	0.48	0
0.1	1	b4219	1.61	0.25	1	1.69	0.52	0
0.09	1	b4259	0.71	0.44	1	0.63	0.19	1
0.07	1	b2581	1.19	0.14	0	1.19	0.34	1
0.09	1	b3051	1.25	0.46	0	1.2	0.67	0
0.1	1	b3114	1.55	0.25	0	1.66	0.74	0
0.07	1	b3158	1.33	0.45	0	1.34	1.5	0
0.19	0	b3938	1.46	0.56	0	1.29	0.58	0
0.11	n/a		1.62	0.31	0	1.91	0.7	0
0.12	1	b0458	1.2	0.47	0	1.17	0.56	1
0.12	1	b2661	1.11	0.41	0	1.39	0.39	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1	b2572	6.72	1.07	1	5.35	5.07	1
0.07	n/a		1.47	110.62	0	1.25	0.16	0
0.07	1	b3533	0.91	0.23	1	0.98	0.29	1
0.1	1	b3153	1.44	0.18	0	1.81	0.7	0
0.07	1		1.77	0.72	0	1.31	0.99	0
0.05	1	b2499	0.66	0.09	1	0.92	0.32	1
0.03	1	b1015	0.43	0.12	1	0.64	0.18	1
0.05	1	b2676	1.73	0.42	0	1.46	0.53	0
0.03	1		1.56	0.29	0	1.56	0.7	0
0.11	1		1.03	0.29	0	0.45	0.17	1
0.07	1	b3404	0.47	0.23	1	0.6	0.14	1
0.07	1	b1292	1.14	0.25	0	1.86	0.48	0
0.15	1	b3904	1.65	0.32	0	1.6	0.96	0
0.12	1		1.04	0.23	0	0.91	0.43	1
0.04	1		1.97	0.91	0	1.63	0.37	0
0.08	1	b1062	0.29	0.06	1	0.54	0.7	1
0.04	1	b3361	1.03	0.4	0	1.61	0.33	0
0.14	1	b3895	1.26	0.62	0	1.44	0.32	0
0.09	1	b0635	1.29	0.49	0	1.45	0.46	0
0.01	1	b0208	1.39	0.24	0	1.05	1.41	1
0.04	n/a	b1629	0.97	0.24	0	0.9	0.53	1
0.12	1		0.61	0.32	1	0.6	0.26	1
0.04	1	b1070	1.43	0.28	0	1.55	0.59	0
0.15	1	b4058	1.71	0.58	1	1.63	0.57	1
0.16	1	b2620	0.83	0.12	1	0.88	0.24	1
0.07	1		1.52	0.41	0	2.05	1.1	0
0.09	1		0.73	0.25	1	0.56	0.08	1
0.39	0		1.67	0.41	0	1.33	0.34	0
0.17	1	b3732	0.38	0.06	1	0.13	0.04	1

0.09	1	b0397	0.96	0.35	0	0.76	0.32	1
0.18	0		1.32	0.84	0	1.81	0.44	0
0.12	1		1.59	0.46	1	1.16	2.53	0
0.07	1		1.99	0.18	1	1.46	0.28	1
0.06	1	b1279	1.27	0.24	0	0.87	0.58	1
0.12	1		1.94	0.55	0	1.68	0.4	0
0.11	1	b3631	0.79	0.06	1	0.54	0.46	1
0.13	0		1.45	0.45	0	1.93	0.73	0
0.09	n/a	b3992	1.25	0.61	0	1.68	1	0
0.05	1	b3849	0.91	0.17	1	0.91	2.05	1
0.04	1	b2514	0.51	0.5	1	0.61	0.27	1
0.13	1	b3790	1.25	0.08	1	0.8	0.26	1
0.1	1	b3772	1.08	0.18	0	1.07	0.2	1
0.06	1	b1226	3.51	1.11	1	1.85	0.66	0
0.05	1		1.44	0.38	0	1.47	0.71	0
0.07	1	b1254	0.95	0.42	0	1.61	0.71	0
0.06	1	b0109	0.92	0.21	1	1.18	0.48	1
0.04	1		1.05	0.73	0	1.48	0.68	0
0.14	1	b3892	1.03	0.12	1	0.63	0.36	1
0.05	1		1.78	0.44	0	1.35	0.88	0
0.08	1		0.68	0.14	1	0.31	0.08	1
0.1	1	b3810	0.91	0.16	1	1.02	0.29	1
0.07	1	b3774	1.5	0.19	1	1.55	0.48	1
0.09	1	b0143	0.29	0.54	1	0.59	0.43	1
0.1	1	b1818	1.85	0.24	1	1.26	0.84	1
0.06	1	b1203	0.95	0.79	1	0.85	0.36	1
0.11	1		0.91	0.21	0	1.06	0.32	1
0.11	1	b0461	1.96	0.45	1	1.14	0.87	1
0.11	1		0.51	0.11	1	0.7	0.17	1
0.05	1	b1534	1.03	0.62	0	1.59	0.41	0
0.05	1		2.45	0.42	1	1.56	0.43	0
0.06	1		1.46	1.11	0	1.61	0.62	0
0.06	n/a		1.31	0.36	0	1.39	0.65	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1		1.28	0.64	0	1.8	0.66	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1	b1379	1.54	0.39	0	1.23	0.77	0
0.07	1		1.52	0.5	0	1.68	0.69	0
0.05	1	b0496	0.92	0.1	0	1.18	0.43	0
0.04	1		1.2	0.88	0	1.33	0.4	0
0.02	1	b0525	0.47	0.05	1	0.29	0.49	1
0.09	1	b0593	6.53	2.4	1	1.86	1.05	0
0.12	1		1.2	0.38	0	1.11	0.47	0
0.05	1	b1220	1.08	0.12	0	1.09	12.47	1
0.06	1	b1186	0.66	0.19	1	1.17	0.24	1
0.08	n/a		1.62	0.2	0	1.43	0.72	0
0.08	1		1.14	0.35	0	0.89	0.4	1
0.05	1	b3591	0.96	0.19	1	1.09	0.3	1
0.11	1		1.54	0.53	0	1.63	0.67	0
0.14	1	b3016	0.8	0.3	0	0.98	0.39	1
0.08	1	b2831	0.98	0.11	0	1.23	0.82	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0

	0.07	1		6.32	0.9	1	6.68	4.57	1
	0.09	1 b2678		1.47	0.34	0	2.06	0.54	0
	0.12	1 b2670		1.13	0.09	1	0.97	0.33	1
	0.04	1 b3258		0.58	0.13	1	1.05	0.3	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b2905		0.19	0.03	1	0.08	0.07	1
	0.59	n/a b2941		0.81	0.19	0	1.62	0.34	0
	0.13	1		0.29	0.1	1	0.44	0.39	1
	0.05	1 b0457		0.92	0.31	1	1.08	0.45	1
	0.1	1 b3523		1.7	0.64	0	1.44	0.17	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1 b4197		1.24	0.21	0	1.28	0.16	0
	0.07	1		1.03	0.19	0	1.34	0.37	1
	0.06	1		1.43	0.32	0	1.6	2.37	0
	0.07	1 b2711		1.34	0.18	0	1.61	0.62	0
	0.06	1		1.36	0.53	0	1.54	0.64	0
	0.08	1		2.41	0.28	1	1.21	0.29	1
	0.09	1 b2671		0.96	0.11	0	1.36	0.49	1
	0.07	1 b2153		1	0.11	1	1.16	0.51	1
	0.11	1 b2047		1.13	0.28	0	1.39	0.24	0
	0.04	1		1.46	0.33	0	1.74	0.32	0
	0.04	1 b1193		0.88	0.08	0	0.98	0.56	1
	0.1	1 b3580		1.23	0.34	0	1.19	0.54	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b1827		0.83	0.13	1	0.61	0.45	1
	0.11	1		1.51	0.62	0	1.38	1.02	0
	0.14	1 b3321		0.28	0.05	1	0.13	0.2	1
	0.12	1 b4171		0.73	0.14	1	0.48	0.36	1
	0.09	1		0.99	0.19	1	1.13	0.38	0
	0.07	1 b3183		0.73	0.11	1	0.87	0.21	1
	0.53	1 b3072		1.21	0.32	0	1.22	0.31	0
	0.06	1 b2988		0.9	0.16	1	0.82	0.14	1
	0.14	1 b2923		1.09	0.42	0	1.33	0.22	0
	0.07	1 b1077		0.85	0.2	1	0.89	0.33	1
	0.09	1 b3059		0.77	0.18	1	1.55	0.64	0
	0.08	1		1.26	0.19	1	0.92	0.2	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1		1.17	0.38	0	1.23	0.33	0
	0.13	1 b2954		0.44	0.1	1	0.77	0.23	1
	0.11	1 b2901		0.69	0.12	1	0.74	0.14	1
	0.17	0 b0753		1.52	0.23	0	1.55	0.42	0
	0.08	1		5.82	0.66	1	3.94	5.38	1
	0.08	1		1.53	0.42	0	1.38	0.53	0
	0.07	0		1.27	2.97	0	1.42	0.72	0
	0.06	1		1.43	1.46	0	2.07	0.68	0
	0.06	1 b0795		0.83	0.19	0	1.03	0.36	1
	0.04	1		0.44	0.1	1	0.58	0.22	1
	0.08	1 b0454		1.29	0.18	0	1.35	0.71	0
	0.06	1 b0391		0.84	0.21	1	0.93	0.5	1
	0.12	n/a		1.29	0.27	0	1.43	1.39	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0



0.06	1		1.51	0.31	0	1.7	0.72	0
0.03	n/a		1.09	0.28	0	1.2	7.69	0
0.1	0		1.45	0.2	0	1.93	0.63	0
0.04	1		1.25	0.23	0	1.34	0.57	0
0.04	1	b1636	0.73	0.12	1	0.73	0.12	1
0.07	n/a		1.09	0.36	0	1.22	0.27	1
0.06	1		1.08	0.2	0	1.2	0.47	1
0.07	1		1.69	0.47	0	2.42	1.25	0
0.04	1		1.59	0.45	0	2.07	0.99	0
0.05	1		0.45	0.06	1	0.65	0.37	1
0.02	1		1.77	0.62	0	1.97	0.84	0
0.06	1		1.51	0.41	0	1.72	1.03	0
0.02	1		1.62	446.16	0	2.41	0.87	0
0.11	1		0.61	0.15	1	0.53	0.3	1
0.21	0		1.58	0.32	0	1.85	1.08	0
0.07	1		1.23	0.14	1	0.96	1.28	1
0.07	1		1.15	0.35	1	0.94	0.26	1
0.05	1		0.53	0.24	1	0.31	0.06	1
0.08	1		1.13	0.17	0	1.18	0.63	1
0.05	n/a	b3559	0.26	0.04	1	0.32	0.06	1
0.11	1		1.29	0.45	0	1.29	0.23	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1	b1127	1.51	0.81	1	1.32	0.5	1
0.06	1	b0088	0.98	0.22	1	0.97	0.23	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1	b0134	0.48	0.12	1	0.85	0.32	1
0.04	1		1.46	0.32	0	1.39	0.07	0
0.12	0		1.42	0.68	0	1.36	0.78	0
0.1	1	b0153	1.58	0.41	0	1.35	0.4	0
0.14	n/a		1.07	0.27	0	1.45	2.12	0
0.06	1	b0686	0.53	0.16	1	0.89	0.25	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.11	1	b3746	0.87	0.31	0	1.11	0.27	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.14	1		1	0.22	0	1.16	0.24	1
0.07	1		1.1	0.29	0	1.46	0.5	0
0.06	1		1.45	0.52	0	1.59	0.67	0
0.04	1	b0758	1.47	0.25	1	1.48	0.33	1
0.07	1	b0099	1.04	0.37	0	1.73	0.58	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b0970	0.62	0.1	1	0.38	0.09	1
0.07	1	b3282	0.8	0.19	1	0.76	0.12	1
0.1	1	b3351	0.79	0.16	0	0.87	0.46	1
0.14	1	b3399	0.79	0.17	1	0.61	0.22	1
0.06	1		1.61	0.48	0	1.42	0.32	0
0.15	0	b3344	1.37	0.39	0	1.09	0.36	1

	0.11	1 b3390	0.5	0.22	1	0.5	0.25	1
	0.07	1 b1132	0.84	0.28	0	1	0.38	1
	0.07	0 b1793	1.24	0.32	0	1.56	0.53	0
	0.05	1	1.55	0.27	0	1.54	0.32	0
	0.05	1	1.24	0.29	0	1.81	0.67	0
	0.08	1 b3431	1.86	0.24	1	1.12	0.2	1
	0.25	1 b3467	1.1	0.34	0	1.18	0.57	0
	0.03	1	1.25	0.37	0	1.46	0.87	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	0	1.47	0.59	0	1.53	0.24	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b2068	1.73	0.58	0	1.74	1.06	0
	0.21	n/a	1.31	0.23	0	1.93	0.73	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b0951	0.65	0.22	1	0.55	0.28	1
	0.07	1 b1608	0.79	0.19	0	0.92	0.21	1
	0.04	1	1.44	0.29	0	1.45	0.55	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.03	1	1.4	0.44	0	1.57	0.7	0
	0.07	1 b2554	0.95	0.23	0	1.12	0.4	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.1	1 b0902	1.1	0.43	1	1.26	0.38	1
	0.09	1 b0925	1.02	0.15	0	1.19	0.16	1
	0.09	1 b3915	1	0.22	1	1.67	0.78	1
	0.12	1 b4028	1.07	0.21	0	1.4	0.53	0
	0.11	n/a	1.06	0.48	0	2.33	0.98	0
	0.13	1 b4153	1.17	0.2	1	1.17	0.14	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b0904	1.37	0.24	1	0.84	0.2	1
	0.06	1	1.03	0.36	0	1.27	0.37	0
	0.1	1 b4019	0.58	0.22	1	0.87	0.49	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.1	1	1.51	0.35	0	1.59	0.63	0
	0.08	1	1.63	0.11	1	0.94	0.22	1
	0.11	1 b2293	1.39	0.49	0	1.25	0.97	0
	0.06	1	0.9	0.09	1	0.62	0.14	1
	0.05	1 b1106	0.66	0.08	0	1.06	0.35	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.04	1 b1064	1.53	0.18	1	0.87	0.61	1
	0.1	1 b3990	0.98	0.14	0	1.35	0.27	0
	0.05	1 b1729	1.37	0.27	0	1.53	0.44	0
	0.05	1 b4167	0.95	0.25	0	1.35	0.34	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b2208	1.83	0.16	0	1.77	0.68	0
	0.06	1 b2247	1.34	0.16	1	1.36	0.23	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b2211	1.6	0.91	0	1.28	0.61	0
	0.19	1 b2250	0.75	0.57	0	0.99	0.5	1
	0.1	1 b2290	0.56	0.43	0	1.02	0.34	1
	0.07	1 b2319	1.2	0.58	0	1.09	0.39	0



0.06	1	2.83	0.47	0	1.43	0.88	0
0.05	1	1.71	0.33	0	1.31	0.73	0
0.11	1 b3743	1.17	0.5	0	1.41	0.48	0
0.01	1	1.54	0.29	0	1.88	0.64	0
0.09	1 b0183	0.58	0.08	1	1.07	0.24	1
0.08	1 b4040	1.41	0.21	1	1.24	0.18	1
0.06	1 b2341	0.97	0.14	1	1.1	0.32	1
0.06	1 b0093	1.56	0.19	1	1.19	1.16	1
0.05	1 b1747	0.87	0.27	0	1.41	0.38	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.1	0 b1679	1.72	1.02	0	2.39	0.81	1
0.04	1	1.04	0.18	0	1.47	0.49	0
0.06	1	1.27	0.56	0	1.83	1.15	0
0.05	1 b0402	1.1	0.15	1	1.08	0.46	1
0.1	1 b2202	9.48	4.94	1	2.86	1	1
0.1	1 b2561	1.24	0.26	0	1.06	0.33	0
0.07	1 b2016	1.05	0.34	0	1.23	0.4	1
0.13	1 b0065	1.25	0.35	0	1.41	0.33	1
0.07	1 b0108	1.38	0.17	0	1.43	0.7	1
0.05	1 b2231	0.34	0.19	1	0.32	0.07	1
0.05	1	0.96	0.16	0	1.44	0.41	0
0.08	1 b0810	0.7	0.06	1	0.82	0.16	1
0.06	1 b1990	1.37	0.38	0	1.57	0.41	0
0.06	1 b0590	2.25	0.73	0	1.63	0.67	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.08	1 b3656	1.19	0.22	0	1.59	0.25	0
0.05	1	0.95	0.15	0	1.22	0.35	0
0.1	1 b3453	0.85	0.2	0	1.04	0.34	1
0.05	1	1.24	0.36	0	1.61	0.55	0
0.15	1 b2511	0.61	0.17	1	1.04	0.36	1
0.07	1 b0464	0.71	0.48	0	0.71	0.37	1
0.07	1 b0504	1.77	0.6	0	1.96	0.6	1
0.26	1 b4209	1.82	0.47	0	1.58	0.48	0
0.03	1	1.67	0.29	1	1.34	0.56	0
0.14	1 b4391	0.34	0.07	1	0.56	0.18	1
0.15	1	1.35	0.25	0	1.96	0.77	0
0.13	1 b3105	1.08	0.57	0	1.08	0.27	1
0.08	1 b3386	0.59	0.04	1	0.48	1.8	1
0.09	1 b3699	0.84	0.08	1	0.46	0.25	1
0.09	1 b2025	0.95	0.73	1	0.98	0.26	1
0.07	1 b0411	1.26	0.32	1	0.75	0.22	1
0.05	1 b1281	0.54	0.24	1	0.79	0.17	1
0.08	1 b3289	1.2	0.11	1	1.18	0.27	1
0.08	1 b3389	0.59	0.05	1	0.52	0.19	1
0.05	1	1.66	0.29	1	0.57	0.22	1
0.15	1 b2567	0.29	0.25	1	0.64	0.29	1
0.04	1 b2455	1.54	0.39	0	1.73	0.74	0
0.15	1 b3856	1.25	0.17	1	1.28	0.25	0
0.08	1	0.65	0.21	0	0.6	0.25	1
0.14	1	1.23	0.37	0	1.56	0.94	0
0.07	1	0.67	0.19	1	0.43	0.16	1

0.06	1 b0847	1.19	0.47	0	1.34	8.34	0
0.06	1 b0828	0.85	0.24	0	1.66	0.49	0
0.08	1 b3364	1.37	0.36	0	1.55	0.61	0
0.07	0	1.33	0.75	0	2.18	0.83	0
0.12	1 b4107	1.33	0.24	0	1.88	1.03	0
0.05	1 b1864	0.36	0.05	1	0.36	0.13	1
0.06	1 b3241	1.26	0.29	0	1.6	0.62	0
0.06	0 b0023	0.62	0.22	1	0.9	1.14	1
0.1	1	1.15	0.23	0	1.95	0.89	0
0.06	1	1.29	0.41	0	1.67	0.69	0
0.14	n/a	1.04	0.29	0	1.57	0.61	0
0.08	1	1.3	0.33	0	1.34	0.81	1
0.02	1	1.68	0.44	0	1.91	0.52	0
0.04	1 b4119	0.85	0.23	0	1.3	0.67	0
0.09	1 b1871	0.49	0.15	1	1.02	0.24	1
0.07	1	1.45	0.36	0	1.2	3.4	0
0.06	1	1.61	0.29	0	2.4	1.29	0
0.13	1 b2618	1.61	0.45	0	1.37	0.28	1
0.09	1 b0025	0.4	0.2	1	0.72	0.14	1
0.14	1 b4237	1.49	9.48	0	1.55	0.46	0
0.09	1	1.43	14.83	0	1.57	0.35	0
0.09	1 b3784	0.66	0.17	0	0.96	1.03	1
0.09	1 b3825	0.92	0.16	0	1.14	0.61	1
0.09	1 b2806	0.76	0.36	0	1.17	0.57	0
0.12	1 b3983	0.34	0.05	1	0.11	0.02	1
0.02	1 b1079	0.8	0.15	1	1.04	0.33	1
0.09	1 b3367	1.16	0.21	0	1.59	0.37	0
0.07	1 b3237	0.67	0.13	1	0.73	0.18	1
0.07	1 b2781	0.71	0.09	1	0.94	0.31	1
0.11	1 b3932	0.67	0.24	0	0.94	0.32	1
0.11	1 b3846	0.32	0.14	1	0.16	0.08	1
0.14	1	1.07	0.33	0	1.3	0.49	0
0.08	1 b3812	1.21	0.16	0	1.47	0.45	0
0.07	1	0.8	0.22	1	0.82	0.16	1
0.04	1	1.17	0.95	0	1.14	0.41	1
0.08	1 b3988	0.62	0.05	1	0.26	0.12	1
0.07	1 b1288	0.4	0.05	1	0.32	0.12	1
0.13	1	1.74	2.77	1	1.56	0.42	1
0.07	1 b2791	0.91	0.09	0	1.24	0.67	0
0.04	1	1.52	0.56	0	1.39	0.5	0
0.1	1 b0507	1.34	0.32	0	1.4	0.75	0
0.02	1 b0927	0.31	0.06	1	0.54	0.14	1
0.03	1 b1466	1.34	0.49	0	1.56	0.44	0
0.04	1	1.19	0.19	0	1.58	0.43	0
0.06	1 b1255	0.49	0.12	1	0.75	0.31	1
0.06	1 b1204	0.82	0.22	1	0.9	0.33	1
0.02	1 b1805	1.19	0.19	1	0.97	0.25	1
0.09	1 b1833	0.71	0.33	1	1.12	0.2	1
0.07	1 b1843	0.65	0.09	1	1.2	0.46	0
0.05	1 b0465	0.6	0.2	1	1.18	0.26	1
0.14	1	1.11	0.55	0	2.01	0.71	0
0.06	1	1.32	0.44	0	1.33	0.3	1

0.05	1	b0914	0.38	0.12	1	0.63	0.17	1
0.08	1	b0601	1.84	0.36	0	1.42	0.72	0
0.05	1	b1430	0.96	0.21	0	0.97	0.31	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b1434	1.11	0.48	0	1.57	0.44	0
0.07	1	b3529	0.84	0.36	0	1.45	0.39	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1		1.13	0.18	1	1.14	0.46	1
0.09	1	b2721	1	0.22	0	1.23	0.38	0
0.08	1	b2801	1.39	0.27	0	1.53	0.52	0
0.06	1		0.99	0.21	0	1.48	0.42	1
0.06	1	b0412	1.04	0.58	1	1.35	0.17	1
0.06	1	b0439	0.57	0.13	1	0.73	0.22	1
0.16	1	b3481	0.82	0.16	1	0.86	0.4	1
0.07	n/a	b3546	0.96	0.14	0	1.35	0.17	0
0.06	1		1.12	0.25	0	1.13	0.63	0
0.09	1	b3613	0.61	0.29	0	1.06	0.11	1
0.07	1	b0209	0.69	0.33	1	0.91	0.1	1
0.1	1	b0406	0.39	0.1	1	0.46	0.12	1
0.16	0	b2991	1.66	0.47	0	1.92	1.02	0
0.07	1	b2686	0.36	0.13	1	0.53	0.17	1
0.12	1	b3539	1.54	0.39	0	1.64	0.61	0
0.1	1		1.7	0.43	0	1.38	0.37	0
0.11	1	b3181	1.11	0.12	1	0.85	0.19	1
0.1	1	b3070	1.53	0.4	0	2.18	0.81	0
0.14	1		7.14	1.03	1	3.34	0.61	1
0.06	1	b2697	0.23	0.02	1	0.15	0.05	1
0.04	1	b2150	0.71	0.11	1	0.27	0.11	1
0.05	1		0.48	10.63	1	0.88	0.32	1
0.07	1	b2709	1.29	0.23	0	1.83	0.73	0
0.05	1	b2178	0.93	0.45	0	1.6	0.45	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.18	1	b2128	1.73	0.44	0	2.1	1.02	0
0.11	1	b0870	0.95	0.2	0	1.32	1.06	0
0.11	0	b3310	0.31	0.04	1	0.13	0.1	1
0.08	1		1.34	0.6	0	1.32	0.4	1
0.07	1		1.55	0.31	0	1.56	0.37	0
0.08	1	b3300	0.56	0.11	1	0.18	0.07	1
0.1	1	b3493	0.39	0.06	1	0.95	0.24	1
0.08	1	b3226	0.67	0.13	1	0.75	0.29	1
0.11	1	b4351	1.09	0.25	0	1.41	0.32	0
0.05	1	b4221	0.97	0.15	1	0.9	1.16	1
0.1	1	b4372	0.44	0.07	1	0.69	0.38	1
0.07	1	b4149	1.35	0.21	0	1.25	0.37	0
0.08	1	b4243	0.48	0.36	1	0.3	0.03	1
0.05	1		1.76	0.81	0	1.45	0.22	0
0.07	1	b0658	0.22	148.55	1	0.42	0.12	1
0.11	1	b3204	0.88	0.29	1	0.59	0.08	1
0.08	1	b3103	1.28	0.4	0	2.01	0.41	0
0.04	1		0.48	0.25	1	0.21	0.03	1
0.8	1		0.78	0.34	0	1.09	0.33	0
0.06	1	b2894	0.68	0.1	1	0.83	0.51	1

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.02	1		1.34	0.3	0	1.38	0.45	0
	0.09	1		0.74	0.17	0	0.93	0.29	1
	0.03	n/a		1.22	0.37	0	1.54	0.54	1
	0.05	1		1.42	0.35	0	1.79	0.7	0
	0.07	1	b0813	1.62	0.2	1	1.81	0.35	1
	0.08	1	b2899	2.1	0.4	1	1.39	0.46	1
	0.1	1		1.37	0.24	1	1.21	0.38	1
	0.14	1	b0407	0.29	0.05	1	0.51	0.13	1
	0.1	1	b0460	1.29	0.17	1	0.67	0.24	1
	0.05	1	b3006	3.04	0.41	1	1.38	0.41	1
	0.13	1	b2809	0.94	0.17	0	1.92	0.84	0
	0.09	1		1.29	0.23	0	1.49	0.79	0
	0.13	1	b4079	1.16	0.73	0	1.51	0.59	0
	0.05	1	b4057	0.95	0.2	0	1.17	0.17	1
	0.07	1	b4144	0.53	0.19	1	0.52	0.17	1
	0.04	1		2.02	0.6	1	2.06	1.33	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.06	1	b2255	0.15	0.01	1	0.19	0.06	1
	0.1	n/a		1.79	0.33	1	1.7	0.39	0
	0.08	1		1.14	0.26	0	1.9	0.88	0
	0.11	1		1.33	0.27	0	1.76	0.41	0
	0.06	1	b1523	1.26	0.32	0	1.59	1.01	0
	0.11	1	b1376	2.41	0.28	1	1.41	0.4	1
	0.08	1	b1842	0.81	0.22	0	1.17	0.5	0
	0.04	1	b0107	0.96	0.24	0	1.78	0.26	0
	0.1	1		1.59	0.86	0	1.5	0.34	0
	0.05	1	b3745	0.67	0.12	1	0.94	0.28	1
	0.08	1	b0415	0.68	0.08	1	0.72	0.24	1
	0.08	0	b2939	1.49	0.18	0	1.99	1.28	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.03	1	b1382	1.47	0.34	0	1.35	0.36	0
	0.03	1	b1307	1.39	0.31	0	1.46	0.4	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.08	0	b1826	2.3	0.44	0	1.58	0.58	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.12	0		1.75	0.52	1	1.34	1.08	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.05	n/a	b1814	0.4	0.1	1	0.76	0.19	1
	0.08	1		1.1	0.31	0	2.4	0.69	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	

0.07	n/a	b2788	2.46	0.6	1	1.18	0.81	1
0.05	n/a	b2935	0.29	0.03	1	0.22	0.07	1
0.06	n/a		2.02	0.21	1	1.83	0.43	0
0.03	1		1.55	0.64	0	1.85	0.85	0
0.06	1		1.07	0.45	0	1.34	0.32	0
0.03	1		1.02	0.23	0	1.5	0.42	1
0.09	0		1.73	0.75	0	2.2	1.06	0
0.07	1		0.47	0.08	1	0.32	0.07	1
0.04	1		1.19	0.1	0	1.75	0.46	1
0.04	1		1.11	0.23	0	1.24	0.24	1
0.05	1		1.34	0.24	0	1.42	0.45	0
0.08	1		1.24	0.31	0	2.03	0.39	0
0.09	1		0.53	0.17	1	0.85	0.25	1
0.1	1		1.44	0.45	0	1.39	0.89	0
0.15	0		1.68	0.32	0	2.12	1.51	0
0.08	1		1.35	0.25	0	1.62	0.3	0
0.03	n/a		1.16	0.26	0	1.77	2.11	0
0.08	1		2.12	0.51	0	1.71	1.17	0
0.05	1		1.39	0.27	0	1.42	0.48	0
0.1	1		1.58	0.29	0	1.97	0.61	0
0.17	1		1.21	0.24	1	1.66	1.55	1
0.04	1		1.06	0.71	0	1.51	0.62	0
0.04	1		0.85	0.13	1	1.36	0.32	1
0.05	1		1.14	0.21	0	1.62	1.23	0
0.07	1		1.82	0.53	0	1.61	1.49	0
0.07	1		1.69	0.25	1	1.04	0.34	1
0.05	1		1.2	0.22	0	1.46	0.35	0
0.07	1		1.47	0.3	0	1.46	0.55	0
0.06	1		1.54	0.26	0	1.62	1.1	0
0.03	1		1.18	0.19	0	1.64	0.74	1
0.06	1		1.22	0.31	0	1.77	0.54	0
0.06	1		1.51	0.24	1	1.45	0.33	1
0.03	1		1.09	0.3	0	1.24	0.18	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	1		1.14	0.23	0	1.67	0.82	0
0.1	1	b3197	0.71	0.06	1	0.61	0.26	1
0.15	1		1.09	0.31	0	1.55	0.73	0
0.11	n/a		1.02	0.2	1	1.42	0.39	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.16	1		0.88	0.07	0	1.37	0.43	0
0.13	1		0.59	0.13	1	1.04	0.34	1
0.11	1	b1581	1.05	0.22	0	1.55	0.44	0
0.04	1		1	0.23	0	1.64	0.95	0
0.09	1	b4241	1.15	0.78	0	1.32	0.79	0
0.1	n/a		1.52	0.58	0	2.43	1.03	0
0.06	1	b0008	0.34	0.05	1	0.21	0.32	1
0.08	1	b1263	1.14	0.37	0	1.85	0.57	0

	0.12	1		1.15	0.19	0	1.84	0.66	0
	0.07	1 b1261		1.38	0.28	1	1.34	0.55	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1 b0059		1.01	0.61	0	1.83	0.29	0
	0.1	1		0.79	0.4	0	1.32	0.45	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.04	1		1.09	0.37	0	1.81	0.72	0
	0.09	1		4.06	0.58	1	2.16	0.74	1
	0.04	1 b1066		0.86	0.11	1	0.75	0.35	1
	0.1	1 b1108		1.16	0.08	1	0.95	0.33	1
	0.06	1		1.08	0.27	0	2.02	0.87	0
	0.07	1 b1054		0.65	0.14	1	0.98	0.26	1
	0.06	1 b1100		0.88	0.3	1	1.44	0.39	0
	0.1	1 b3426		1.79	0.19	1	1.41	0.5	0
	0.13	1 b3447		1.38	0.52	0	2.35	0.66	0
	0.06	1 b4360		0.97	0.26	0	1.73	0.43	0
	0.12 n/a	b4394		1.08	0.31	0	1.88	2.34	0
	0.12	1 b1792		1.56	0.28	0	2	0.62	0
	0.06	1 b4364		1.05	0.21	0	1.66	0.42	0
	0.14	1 b4396		0.35	0.34	1	0.76	0.46	1
	0.11	1		1.27	0.69	0	1.79	0.39	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.06	1		1.47	0.24	0	1.53	0.27	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.06	1		4.51	2.47	1	3.33	0.93	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.02	1		1.27	0.27	0	1.67	0.61	0
	0.11	1		1.73	0.41	0	2.41	0.78	0
	0.15 n/a	b2434		0.51	0.1	1	0.92	0.46	1
	0.12	1 b2479		0.74	0.18	0	1.41	0.54	0
	0.07	1 b0898		1.41	0.32	0	1.55	0.49	0
	0.08	1 b0923		0.89	0.21	0	1.21	0.38	0
	0.13 n/a			1.54	0.47	0	1.8	0.8	0
	0.07	1 b2532		1.39	0.22	1	1.39	0.7	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.16	0 b1518		1.55	0.33	0	1.67	0.54	0
	0.18	1 b3955		0.33	0.52	1	0.8	0.4	1
	0.08	1		1.57	0.42	0	1.53	0.99	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1 b2503		1.26	0.13	0	1.91	0.74	0
	0.08	1		6.52	1.53	1	3.38	1.45	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1		0.96	0.1	0	1.53	0.87	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1 b2729		1.21	0.11	1	1.4	0.57	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.15	1 b4332		0.88	0.3	0	1.35	0.39	0
	0.06 n/a			1.57	0.36	0	1.17	1.21	0
	0.08	1 b1797		1.19	0.17	0	1.82	0.95	0
	0.06	1 b1599		1.15	0.34	0	1.93	0.98	0

	0.05	1 b1133		0.31	0.04	1	0.55	0.44	1
	0.03	1 b1111		1.82	0.36	1	1.52	0.57	1
	0.17 n/a			1.63	0.19	0	1.63	0.42	0
	0.07	1		1.49	0.47	0	1.15	0.46	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09 n/a	b4269		1.42	0.41	0	1.98	0.66	0
	0.07	1		1.72	0.26	1	1.86	1.71	0
	0.05	0 b1892		1.11	0.31	0	1.2	0.57	0
	0.08	1 b1710		0.99	0.48	1	1.71	0.46	0
	0.1	1 b2028		0.42	0.17	1	0.84	0.17	1
	0.1	1 b3700		0.72	0.17	1	1.17	0.36	1
	0.1	1 b2559		1.16	0.24	0	1.89	0.83	0
	0.06	1 b0159		0.56	0.28	1	0.87	0.4	1
	0.1	1 b0089		1.4	0.22	1	1.71	0.54	0
	0.05	1 b0068		1.08	0.34	0	1.9	0.96	0
	0.1	1 b2330		0.34	0.17	1	0.69	0.26	1
	0.07	1 b1728		1.34	0.17	0	2.32	0.86	0
	0.11	1 b1947		1.34	0.54	0	1.69	0.98	0
	0.05	1 b2104		1.23	0.46	0	1.33	0.95	0
	0.08	1 b1611		1.52	0.27	1	1.06	0.65	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1		1.08	0.11	1	0.85	0.21	1
	0.15	1 b3715		0.59	0.16	0	1.45	0.31	0
	0.06	1 b0171		0.28	0.03	1	0.3	0.07	1
	0.08	1		0.28	0.1	1	0.57	0.29	1
	0.06	1 b0098		0.38	0.04	1	0.38	0.67	1
	0.1	1 b2280		0.62	0.04	1	0.83	0.47	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.22	1		1.33	0.39	0	1.76	0.73	0
	0.09	1 b0490		1	0.25	0	1.58	0.52	0
	0.06	1 b0479		0.96	0.33	0	1.74	1.16	0
	0.14	1 b4152		1.28	0.11	1	1.32	0.36	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1		1.41	0.24	0	1.47	0.73	0
	0.07	1 b3035		0.52	0.03	1	0.49	0.4	1
	0.1	1 b3073		0.98	0.14	0	1.62	0.46	0
	0.1	1		1.49	0.44	0	1.65	0.36	0
	0.14	1 b2252		0.65	0.2	0	1.45	0.48	0
	0.06	1 b2411		0.81	0.29	0	1.59	0.58	0
	0.03	1 b0509		1.48	0.75	0	2.14	2.42	0
	0.08 n/a			1.17	0.3	0	1.47	0.75	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1 b2585		0.85	0.1	1	0.91	1.13	1
	0.12	1 b3057		0.8	0.15	0	1.37	0.55	0
	0.04	1 b3486		1.23	0.14	1	1.34	0.46	1
	0.09	1		0.93	0.22	1	1.49	0.49	0
	0.08	1 b0417		0.68	0.15	1	1.02	0.62	1

0.12	1	0.8	0.12	0	1.27	0.49	0
0.03	1 b0826	0.62	0.15	1	1.27	0.46	0
0.1	1	0.45	0.17	1	0.92	0.39	1
0.06	1	1.53	0.3	0	1.38	0.53	0
0.07	1 b2307	1.22	0.96	0	1.5	0.56	0
0.08	1	0.78	0.2	1	1.28	0.53	0
0.02	1 b1252	1	0.07	1	1.24	0.64	1
0.07	1 b2438	1.23	0.46	0	1.51	1.27	0
0.08	1 b1517	1.46	0.17	1	1.33	0.57	1
0.09	1	0.11	0.06	1	0.28	0.13	1
0.06	1 b2452	1.1	0.16	0	1.64	1.05	0
0.13	1 b3960	0.95	0.14	0	1.58	0.41	0
0.04	1 b0752	0.99	0.29	0	1.55	0.38	0
0.11	1 b0738	0.72	0.17	1	1.45	1.1	0
0.08	1 b2675	2.13	0.49	0	1.99	0.44	0
0.06	1 b1531	0.48	0.04	1	0.49	0.46	1
0.08	0	1.54	0.32	0	2.21	0.7	0
0.07	1 b1326	1	0.28	0	1.34	0.82	0
0.08	1	0.33	0.05	1	0.42	0.26	1
0.04	1 b0190	0.97	0.14	1	1.38	0.39	1
0.06	1 b1130	1.25	0.23	1	0.84	1.42	1
0.12	1 b3998	0.88	0.14	1	1.31	0.56	0
0.06	0	1.53	0.22	0	1.76	0.64	0
0.06	1 b4187	2.08	0.55	1	1.09	0.69	1
0.06	1	1.38	0.34	0	2.25	0.99	0
0.06	1 b1091	0.59	0.09	1	0.69	0.33	1
0.15	1 b1284	0.6	0.15	1	1.56	0.49	1
0.03	1 b1869	0.56	0.19	1	1.47	3.06	1
0.11	n/a	1.12	0.41	0	2.42	1.13	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.09	1	1.35	0.59	0	1.48	0.83	0
0.1	1	1.38	0.18	0	1.57	0.74	0
0.05	1 b4001	0.65	0.15	1	1.27	0.29	1
0.1	1 b3843	0.41	0.07	1	0.44	0.45	1
0.1	1 b3817	0.97	0.26	0	1.38	0.4	0
0.13	1 b3781	0.96	0.12	1	0.93	0.59	1
0.02	1 b1224	2.18	0.56	0	1.59	0.51	0
0.1	1 b1809	0.66	0.42	0	1.33	0.89	0
0.08	1 b1251	0.7	0.11	0	1.22	0.47	0
0.07	1 b2836	0.49	0.17	1	0.8	0.44	1
0.04	1	1.05	0.34	0	1.46	0.49	0
0.12	1	1.26	0.63	0	1.68	0.51	0
0.04	1	1.41	0.38	0	2.34	0.88	0
0.05	1 b1469	1.39	0.32	0	1.52	0.46	0
0.14	1	0.96	0.44	0	1.49	0.73	0
0.06	1	0.59	0.08	1	1.37	0.46	1
0.21	0 b3766	1.51	0.36	0	1.81	0.58	0
n/a	n/a	n/a	n/a	0	n/a	n/a	0
0.06	1	0.78	0.06	0	1.66	0.37	0
0.12	0 b1273	0.86	0.12	0	1.86	0.61	0
0.05	1	1.32	0.38	0	1.89	0.52	0
0.06	1 b1846	2.06	0.49	1	3.03	2.1	1



	0.08	1	b0611	0.41	0.04	1	0.67	0.55	1
	0.08	1		1.38	0.35	0	1.57	0.33	0
	0.08	1	b0596	1.98	0.15	1	2.2	0.75	0
	0.03	1		1.43	0.33	0	1.31	0.34	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.03	1	b1451	1.36	0.35	0	2.39	1.31	0
	0.06	1		1.57	0.83	0	2.38	0.81	0
	0.05	1		1.43	0.32	0	1.3	0.66	0
	0.09	1	b1858	0.89	0.28	0	1.38	0.69	0
	0.05	1	b0865	1.39	0.22	1	2.02	0.81	1
	0.05	1	b0511	1.31	0.37	0	1.47	0.17	0
	0.08	1	b0512	1.28	0.15	0	1.71	0.48	1
	0.04	1	b0891	1.04	0.11	1	0.46	0.45	1
	0.05	1	b1414	1.8	0.21	1	1.37	0.88	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	1		1.24	0.1	0	1.59	0.29	0
	0.03	1	b1816	1.19	0.22	0	1.73	0.29	0
	0.05	1		1.15	0.29	0	1.45	0.54	0
	0.09	1	b3578	1.29	0.19	0	2.3	0.63	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.06	1		1.14	0.47	0	1.59	0.41	0
	0.12	1		0.96	0.29	0	1.29	0.48	0
	0.09	1	b2922	0.4	0.06	1	0.43	0.5	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.09	1	b2710	1.41	0.24	0	1.96	1.72	0
	0.06	1	b2938	0.68	0.08	1	0.82	1.08	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.15	0		1.33	0.23	0	1.71	0.98	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.05	n/a	b2965	1.01	0.16	0	1.69	0.34	0
	0.04	1	b0444	0.54	0.12	1	1.02	0.58	1
	0.12	1	b3494	1.51	0.11	0	1.42	0.37	0
	0.15	0	b2959	0.61	0.14	1	0.71	0.14	1
	0.07	n/a		1.09	0.56	0	1.59	0.44	0
	0.09	1	b4235	0.72	0.16	1	0.9	0.22	1
	0.08	1	b4376	0.98	0.19	0	1.7	0.56	0
	0.09	1	b2681	0.94	0.2	0	1.27	2.6	0
	0.04	1	b2076	1.39	0.35	0	1.94	0.54	0
	0.04	1	b2176	0.63	0.32	0	1.09	0.17	1
	0.06	1	b2043	0.88	0.3	1	0.81	0.59	1
	0.08	1	b2079	0.76	0.11	0	1.29	0.37	0
	0.07	1	b2159	0.9	0.2	1	1.09	0.4	0
	0.03	1	b2066	0.34	0.12	1	0.96	0.29	1
	0.08	1	b1831	0.22	0.02	1	0.92	0.54	1
	0.11	1	b3606	0.98	0.38	1	1.5	0.61	1
	0.11	0	b3552	0.6	0.47	1	1.1	0.6	1
	0.06	1	b2152	0.99	0.09	0	1.65	0.32	0
	0.06	1	b1212	0.57	0.06	1	1.05	0.59	1
	0.1	1		1.22	0.36	0	1.72	1.42	0
	0.08	n/a		1.08	0.27	0	1.66	0.58	0
	0.09	1	b4185	1.27	0.39	0	1.45	0.78	0

0.09		1 b3032	0.88	0.17	1	0.95	0.43	1
0.04		1 b3157	0.8	0.18	1	0.96	1.03	1
0.07		1 b3005	2.74	0.62	1	1.5	0.81	0
0.12		1 b2924	0.53	0.09	1	0.91	0.71	1
0.1		1 b3207	0.92	0.21	0	1.04	0.57	1
0.06		1	1.39	0.3	0	1.68	0.65	0
0.07		1 b3011	1.35	0.11	1	1.11	11.05	1
0.04		1 b1334	1.19	0.17	1	1.03	1.82	1
0.08		1	1.34	0.22	0	2.31	1.36	1
0.12		0	1.54	0.49	0	1.77	0.7	0
0.12		1 b2936	0.67	0.1	1	1.17	1.22	0
0.09		0 b0968	1.5	0.32	0	1.11	0.69	0
0.04		1 b0767	1.29	0.26	1	1.01	9.75	1
0.09		1 b2949	0.77	0.16	0	1.6	0.41	0
0.04		1 b0950	0.75	0.25	1	1.26	0.35	0
0.06		1 b0740	0.52	0.09	1	0.37	0.42	1
0.04		1 b0776	1.23	0.16	0	1.74	0.52	0
0.03		1 b0822	0.57	0.09	1	1.05	0.28	1
0.03		1	0.75	0.17	1	1.27	1.35	1
0.09		1	1.09	0.27	1	0.46	0.98	1
0.13		1	1.13	0.06	1	1.16	0.46	1
0.09		1 b2953	0.37	0.05	1	0.79	0.28	1
0.04		1 b0471	0.48	0.11	1	0.67	0.67	1
0.13		0	1.53	0.28	0	2.24	0.85	0
0.08		1 b2498	0.47	0.09	1	0.96	0.25	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
0.11		1 b2107	1.01	0.19	1	1.02	0.75	1
0.1		0	1	0.48	0	2.21	0.99	0
0.11		1 b0410	0.47	0.07	1	0.44	0.4	1
0.15		1 b3610	0.43	0.1	1	0.61	0.33	1
0.17		1 b4189	1.96	0.34	1	1.64	0.82	0
0.04		1 b2728	1.2	0.25	0	1.76	0.49	0
0.06		1 b1003	1.62	0.39	0	2.07	0.67	0
0.02		1	2.85	0.6	1	2.13	0.69	0
0.07		1	2.39	0.53	1	2.16	5.11	0
0.09		1	1.36	0.43	0	1.76	1.64	0
0.06		1	0.82	0.2	0	1.46	0.48	0
0.15	n/a		1.31	0.22	0	1.83	0.65	0
0.1		1	1.13	0.31	0	1.72	10.28	0
0.05		1	1.25	0.32	0	1.43	0.51	0
0.06	n/a		1.31	0.27	0	1.59	0.41	0
0.03		1	1.51	0.48	0	1.59	31.59	0
0.03		1 b0054	0.3	0.03	1	0.3	0.61	1
0.18		0	1.58	0.6	0	1.3	3.04	0
0.05		1	1.57	0.31	0	1.74	0.41	0
0.08		1 b1332	0.58	0.2	1	1	0.8	1
0.07		1 b1436	1.45	0.3	0	1.75	0.76	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
0.08		0 b3107	1.63	0.3	0	1.92	0.66	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0



	0.03	1	b0996	1.6	0.23	0	1.56	0.88	0
	0.1	1		1.56	0.69	0	1.17	0.59	0
	0.08	1		1.22	0.26	0	1.54	0.54	0
	0.11	1	b0019	0.87	0.42	0	1.42	0.61	0
	0.08	1	b0041	1.23	0.37	0	1.22	0.55	0
	0.09	1	b3907	1	0.33	0	1.28	0.48	0
	0.16	1	b3018	0.65	0.46	1	1.23	0.37	0
	0.1	1	b3209	1.71	0.27	1	1.56	0.15	0
	0.17	0	b3242	1.59	0.44	0	1.57	0.64	0
	0.12	1	b3266	1.35	0.31	0	1.66	0.38	0
	0.07	1	b0643	1.73	0.2	1	1.51	1.79	1
	0.11	1	b0116	0.52	0.1	1	0.2	1.75	1
	0.12	n/a	b0129	1.23	0.46	0	1.58	0.6	0
	0.11	1	b0162	2.72	0.5	1	1.38	1.13	1
	0.11	1		0.78	0.32	0	1.36	0.31	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.18	1	b3438	0.82	0.52	0	1.24	0.75	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.06	1		1.52	0.21	0	2.29	1.14	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.11	1		1.31	0.47	0	1.62	0.8	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.15	1	b0223	1.09	0.11	1	1.14	0.46	1
	0.12	1		0.85	0.33	0	1.39	0.33	0
	0.08	1		1.19	0.27	0	1.24	0.39	0
	0.07	1	b1033	0.34	0.16	1	0.66	0.36	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	0		1.28	0.45	0	1.48	0.5	0
	0.05	1	b1020	1.23	1.23	1	1.29	0.27	1
	0.07	1	b1057	1.37	0.51	0	1.34	0.41	0
	0.11	1	b1104	0.86	0.2	0	1.53	0.41	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.12	1	b3281	0.95	0.24	1	1.25	0.39	1
	0.09	1	b1063	1	3.31	0	1.1	0.37	0
	0.11	1	b3409	1.2	0.42	1	1.32	0.5	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	1	b3471	1.24	0.56	0	1.72	0.97	0
	0.13	1	b1512	1.35	0.3	0	1.36	0.4	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.12	1		0.47	0.3	1	0.93	0.31	1
	0.12	1	b4077	1.13	0.24	0	1.44	0.84	0
	0.17	1	b2746	0.52	0.07	1	0.68	0.21	1
	0.1	1	b0848	5.67	1.32	1	3.5	0.93	1
	0.08	1	b2324	0.9	0.54	0	1.77	1.07	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.07	1	b2520	1.08	0.16	0	1.36	0.34	0
	0.12	1	b4015	0.34	0.08	1	0.24	0.37	1

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.16	1 b4071		1.54	0.39	0	1.55	0.54	0
	0.14	1		1.07	0.34	0	0.89	0.48	1
	0.15	1 b4159		1.26	0.23	0	1.59	0.81	0
	0.12	1		1.76	0.34	0	2.06	0.81	0
	0.09	1 b2431		0.98	0.12	1	0.97	0.22	0
	0.08	1 b2477		0.4	0.34	1	0.39	1.94	1
	0.09	0 b1766		1.04	0.58	0	2.29	0.67	0
	0.07	1		1.3	0.28	0	1.68	2.65	0
	0.22	1 b4184		1.61	0.47	0	1.6	0.73	0
	0.13	0 b4222		1.33	0.32	1	1.21	0.3	0
	0.06	1		1.05	0.21	0	1.91	0.26	0
	0.04	0 b2279		0.86	0.37	0	1.21	0.29	0
	0.08	1		1.13	0.46	0	1.49	0.68	0
	0.1	1 b2298		1.4	0.19	0	1.75	0.21	0
	0.08	1		1.04	0.21	0	1.47	0.42	0
	0.07	1 b3115		1.88	0.38	0	1.81	0.44	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.08	1 b1047		1.15	0.53	0	1.42	0.59	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.12	1 b0330		0.83	0.17	0	1.25	0.45	0
	0.11	1 b1784		1	0.81	0	1.37	0.25	0
	0.15	1 b1660		0.98	0.5	0	1.34	1.29	0
	0.06	1 b4193		1.62	0.35	0	1.55	0.43	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.08	1 b2311		0.93	0.21	0	1.86	0.75	0
	0.08	1 b1714		0.47	0.37	1	0.89	1.86	0
	0.15	1 b1681		17.12	10.68	1	15.6	5.56	1
	0.14	1 b4375		0.3	0.21	1	0.42	0.41	1
	0.15	1		1.41	0.34	0	1.19	0.49	0
	0.06	1 b3662		1.76	0.47	0	1.17	0.93	0
	0.06	1 b4035		1.12	0.25	0	1.36	0.45	0
	0.08	1 b3749		1.68	0.38	0	1.53	0.28	0
	0.09	1 b0200		0.8	0.05	1	0.84	0.5	1
	0.07	1 b1960		1.13	0.4	0	1.57	0.49	0
	0.1	1 b4046		1.02	0.4	0	1.27	0.34	0
	0.09	n/a b1746		0.9	0.23	0	1.54	0.3	0
	0.11	1 b1743		1.45	0.11	0	1.33	0.6	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.09	1 b1644		0.81	0.24	0	0.95	0.22	1
	0.07	1 b1075		0.47	0.31	1	0.73	0.35	1
	0.09	1 b2039		0.88	0.56	1	0.95	0.37	1
	0.17	1		0.75	0.1	1	0.73	0.38	1
	0.12	1 b4329		1.2	0.58	0	1.5	0.73	0
	0.11	1		1.38	0.4	0	1.75	0.69	0
	0.14	1 b3531		0.9	0.31	0	1.1	0.63	0
	0.1	1 b3154		1.13	0.37	0	1.52	0.67	0
	0.07	1 b2261		0.83	0.2	1	1	0.23	1
	0.06	1 b2243		3.76	0.43	1	2.21	1.12	1
	0.1	0 b2480		0.53	0.19	1	1.02	0.28	0
	0.08	1 b0493		0.86	0.38	0	1.27	0.17	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	

n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.09	1 b3653		1.08	0.32	1	1.23	0.58
	0.17	1		1.18	0.38	0	1.69	1.35
	0.14	1		1.49	0.24	1	1.68	0.6
	0.14	1 b3440		1.06	0.11	0	1.69	0.79
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.11	1		1.32	0.19	0	1.29	0.38
	0.14	1 b4255		1.39	0.35	0	1.09	0.74
	0.19	1		1.52	0.41	0	1.93	0.99
	0.13	1 b4245		0.52	0.09	1	0.94	0.34
	0.18	1 b3940		1.07	0.31	0	1.54	0.58
	0.11	1 b0698		1.33	0.24	0	1.49	0.64
	0.07	1 b0712		0.82	0.21	1	1.17	0.43
	0.08	1		0.95	0.23	1	0.64	7.2
	0.1	1 b2557		0.52	0.19	1	1.1	1.5
	0.09	1 b3906		1.34	0.57	0	1.4	0.32
	0.1 n/a	b0639		1.1	0.45	0	1.1	0.18
	0.11	1		1.32	0.29	0	1.62	0.34
	0.06	1		5.81	1.41	1	2.93	1.13
	0.03	1 b3405		0.31	3.13	1	0.4	0.11
	0.08	1 b1291		1.01	0.19	1	1.1	0.46
	0.06	1 b0071		1.53	0.47	0	2.07	0.96
	0.08	1 b1241		1.23	0.26	1	0.94	0.43
	0.14	1		0.8	0.56	1	0.83	15.65
	0.09	1 b2451		1.28	0.58	0	1.16	0.65
	0.08	1 b3888		0.71	0.15	1	1.03	0.42
	0.11	1		0.81	0.26	0	1.42	4.24
	0.11	1 b3995		1.01	0.43	1	1.52	0.6
	0.1	1 b3881		1.19	0.33	0	1.52	0.74
	0.21	1		1.45	0.38	1	1.52	1.62
	0.08	0		0.93	0.2	0	1.38	0.37
	0.1	0 b1089		0.56	0.17	1	0.45	0.68
	0.08	1 b1324		0.86	0.25	1	0.6	0.43
	0.07	1 b2501		0.71	0.22	0	0.99	0.18
	0.24	0		1.27	0.24	0	1.47	0.59
	0.1	1 b3628		2.2	0.46	1	1.54	0.57
	0.12 n/a			0.98	0.07	0	1.56	0.61
	0.15	1 b3991		1.38	0.38	0	1.43	0.27
	0.17	0		1.68	0.46	0	1.84	0.44
	0.06	0		2.04	0.5	0	1.95	0.74
	0.18	0 b3737		0.26	0.03	1	0.65	0.88
	0.07	1		1.09	0.4	0	1.74	1.11
	0.13	1 b4115		0.81	0.26	0	1.34	0.5
	0.09	1		1.45	0.35	0	1.88	1.6
	0.07	1 b1276		4.96	1.21	1	8.09	7.01
	0.04	1 b2601		1	0.1	1	1.18	3.13
	0.07	1 b2787		4.03	0.86	1	2.74	1.36
	0.06	1		1.29	0.39	0	1.55	0.34
	0.11	1 b3842		0.56	0.21	1	1.13	0.29
	0.09	1		0.75	0.17	1	1.12	0.32
	0.13 n/a	b3789		1.28	0.18	0	1.76	0.62
	0.09	1		1.34	0.21	0	1.34	0.27

	0.08	1 b3778	0.87	0.34	0	1.34	0.68	0
	0.04	1 b0067	1.61	0.5	0	1.57	0.42	0
	0.05	1 b1242	0.97	0.16	0	1.48	0.33	0
	0.04	1	1.56	0.51	0	1.67	0.48	0
	0.03	1 b2827	0.55	0.08	1	0.51	0.24	1
	0.06	1 b1246	1.18	0.31	1	1.09	0.48	0
	0.14	1	0.89	0.36	0	1.32	0.28	0
	0.08	1 b3819	0.65	0.5	0	1.54	0.72	0
	0.12	1	1.15	0.37	0	1.57	0.59	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1 b1188	1.24	0.49	0	1.09	0.36	1
	0.07	1 b1232	0.39	0.41	1	0.48	0.63	1
	0.12	1 b1444	1.13	0.18	1	1.32	1.9	1
	0.07	1 b1830	0.3	0.1	1	0.33	0.27	1
	0.05	1 b1856	0.16	0.03	1	0.37	0.57	1
	0.11	1 b0492	0.72	0.27	1	0.94	0.39	1
	0.11	1 b0516	1.58	0.39	0	1.33	0.45	0
	0.09	1 b0520	1.38	0.26	0	1.52	0.55	0
	0.09	1 b0579	0.78	0.19	1	0.99	0.54	1
	0.05	1 b0610	0.57	0.12	1	0.74	0.38	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1	1.75	0.26	0	1.91	0.33	0
	0.09	1	1.57	0.31	0	1.48	0.98	0
	0.08	1	1.23	0.28	0	1.29	0.21	0
	0.08 n/a		1.03	0.22	0	1.31	1.49	0
	0.1	1 b1325	1.01	0.17	1	1.07	1.09	0
	0.48	1 b0484	2.16	0.61	1	2.07	0.64	0
	0.07	1 b1528	1.14	0.34	0	1.25	0.39	0
	0.07	1	1.16	0.4	0	1.31	0.44	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1 b0426	0.46	0.05	1	0.52	0.76	1
	0.07	1 b3474	1.14	0.2	0	1.27	0.5	0
	0.14 n/a		0.94	0.26	0	1.48	0.42	0
	0.08	1 b3579	0.96	1.34	0	1.31	0.58	0
	0.09	1 b3641	0.65	0.54	0	1.3	0.29	0
	2.61	1 b3647	0.96	0.24	0	1.26	0.52	0
	0.13	1 b2803	1.57	0.44	1	1.56	0.39	0
	0.1 n/a		1.38	0.22	0	1.65	0.4	0
	0.04	1 b0398	1.03	0.33	0	1.62	0.25	0
	0.11	1	1.98	0.39	1	1.21	0.3	1
	0.08 n/a		1.38	0.16	1	1.26	0.49	1
	0.08	1	0.47	0.17	1	1	0.42	1
	0.14 n/a		2.68	0.86	1	1.43	0.51	0
	0.08	1	1.25	0.32	0	1.01	0.7	1
	0.05 n/a		1.12	0.25	0	1.11	0.32	1
	0.11	1 b0421	0.45	0.21	1	0.65	0.49	1
	0.1	1 b3012	1.27	0.13	1	1.02	0.45	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.1	1 b2124	0.9	0.52	0	1.61	0.76	0
	0.04	1 b0874	0.79	0.59	0	1.33	1.14	0
	0.12	1	1.07	0.13	1	0.92	0.27	1
	0.09	1 b4148	1.25	0.29	0	1.75	0.48	0

0.14	1		0.58	0.47	1	0.34	0.45	1
0.15	1 b3318		0.27	0.06	1	0.17	1.06	1
0.09	1 b4168		1.13	0.18	0	1.41	0.35	0
0.18 n/a	b3167		1.26	0.19	0	1.5	0.46	0
0.07	1 b3052		0.52	0.47	1	0.86	0.28	1
0.05	1		1.31	0.25	1	1.18	0.67	1
0.06	1		1.23	0.34	0	1.89	0.73	0
0.13	1 b4392		0.55	0.3	1	0.86	0.72	1
0.04	1 b0377		1.11	0.1	0	1.29	0.77	0
0.04 n/a	b2173		0.54	0.1	1	1.1	0.97	1
0.11	1		0.85	0.89	1	1	0.78	1
0.05	1 b2109		1.37	0.22	0	1.37	0.97	0
0.13	1		0.87	0.54	0	0.95	0.49	0
0.09 n/a	b2964		1.63	0.37	1	1.18	0.88	0
0.11	1 b2916		0.67	0.19	1	1.21	0.16	0
0.07	1 b0742		0.23	0.04	1	0.2	0.72	1
0.07	1 b0797		0.98	0.35	0	1.46	0.45	0
0.15	1		0.55	0.09	1	0.72	0.46	1
0.07	1 b1078		0.5	0.11	1	0.78	0.32	1
0.08	1 b0773		0.77	0.06	1	1.5	0.71	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.06	1 b3199		0.74	0.21	1	0.56	0.61	1
0.05	1		3.45	0.46	1	2.77	1	1
0.09	1 b2952		0.41	0.08	1	1.01	1.15	1
0.06	1 b1914		0.48	0.08	1	0.83	0.35	1
0.16	1 b3212		0.92	0.23	0	1.51	0.33	0
0.13	1		1.56	0.55	0	1.55	0.55	0
0.12	1 b3067		0.76	0.09	1	0.48	1.08	1
0.1	1		1.38	0.79	0	1.88	0.87	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.11	1		1.68	0.2	1	0.44	1.18	1
0.22	1		0.6	0.08	1	1.1	0.5	1
0.06	1 b2669		0.49	0.13	1	0.58	1.46	1
0.27	1 b3636		0.34	0.14	1	0.65	0.32	1
0.09	1 b2609		0.44	0.03	1	0.25	0.8	1
0.08	1 b0528		0.86	0.14	0	1.28	0.43	0
0.05	1 b1282		0.62	0.13	1	0.51	0.13	1
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.05	1 b1930		1.03	0.3	0	1.61	0.43	0
0.08	1 b1446		1.33	0.2	1	1.6	1.61	0
0.09 n/a			1.2	0.25	0	1.61	0.66	0
0.08	1 b3775		0.62	0.11	1	0.78	0.28	1
0.13	1 b0912		0.46	0.05	1	0.63	0.28	1
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.13	1 b3581		1.45	0.22	0	1.67	0.31	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0 n/a	n/a	n/a	0
0.1 n/a			1.13	0.28	0	1.28	0.7	0
0.22	1		1.17	0.37	0	1.72	0.76	0
0.12	1 b4402		1.49	0.31	1	1.17	0.45	1
0.13	0 b0001		1.3	0.56	0	2.31	0.73	0



n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.13	1	b3049	1.41	0.33	0	1.26	0.41	0
	0.06	1	b3175	0.35	0.05	1	0.22	0.61	1
	0.06	1		0.84	0.45	1	1.18	0.59	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.04	1		1.45	0.33	0	1.38	0.59	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	0.07	n/a	b1816	1.01	0.21	0	1.39	0.71	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.09	1		1.27	0.3	0	1.32	0.53	0
	0.12	n/a		1.46	12.74	0	1.54	0.47	0
	0.05	n/a	b2063	0.67	0.2	1	0.77	0.39	1
	0.09	n/a		0.68	0.67	0	1.31	0.52	0
	0.05	n/a		2.13	0.61	1	1.5	0.53	0
	0.08	n/a	b3030	0.41	0.05	1	0.61	0.48	1
	0.08	n/a		0.97	0.17	1	1.45	0.36	0
	0.07	n/a	b3213	1.39	0.39	1	1.23	0.49	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.13	1		1.47	0.51	0	1.87	0.45	0
	0.11	1		1.52	0.48	0	2.03	0.75	0
	0.08	1		0.81	0.22	1	0.73	1.67	1
	0.08	1		1.24	0.48	1	1.81	1.48	1
	0.1	1		0.89	0.43	0	1.37	0.37	0
	0.07	1		0.98	0.19	0	1.22	0.34	0
	0.08	1		1.14	0.2	0	1.18	1	1
	0.15	1		1.32	0.25	1	1.22	0.25	0
	0.07	n/a		1.09	0.2	0	1.81	0.4	0
	0.07	n/a		1.1	0.19	1	0.98	0.62	1
	0.05	1		1.25	1.22	1	1.43	0.63	1
	0.06	1		1.24	0.47	0	1.56	0.41	0
	0.08	1		1.35	0.15	0	1.63	0.3	0
	0.08	1		1.23	0.28	0	1.83	0.46	0
	0.09	n/a		0.89	0.26	1	0.99	1.02	1
	0.12	1		2.2	0.46	1	1.11	0.52	1
	0.05	1		1.3	0.37	0	2.1	0.85	0
	0.05	1		1.26	0.38	0	1.39	0.7	0
	0.13	1		1.1	0.22	0	1.44	0.44	0
	0.05	1		0.84	0.23	0	1.42	0.55	0
	0.1	n/a		1.24	0.33	0	1.63	0.68	0
	0.09	n/a		1.22	1.65	1	1.61	1.14	0
	0.09	1		0.98	0.09	1	1.34	0.73	0
	0.07	1		0.5	0.07	1	0.68	0.56	1
	0.05	1		0.98	0.35	1	1.23	1.35	0

	0.07	1		1.2	0.2	0	1.35	0.77	0
	0.1	1		2.05	0.24	1	0.97	0.65	1
	0.23	1		1.09	0.3	0	1.9	1.53	0
	0.13	1		1.91	0.8	1	1.83	0.28	0
	0.1	1		0.87	0.47	1	0.9	0.62	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	n/a	b0695	1.13	0.47	0	1.37	0.41	1
	0.13	1		1.48	0.41	0	1.11	0.74	0
	0.06	1	b3727	0.93	0.23	1	1.15	0.5	0
	0.11	1	b3755	1.05	0.29	1	0.95	1.02	1
	0.09	1	b1209	0.61	0.25	1	1.04	2.4	1
	0.14	1	b0072	1.24	0.14	0	1.5	0.46	0
	0.1	1		1.2	0.43	0	1.33	0.25	1
	0.15	1	b0081	1.01	0.4	0	0.97	0.16	1
	0.06	1	b0112	1.43	0.33	0	1.33	0.31	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.27	0		1.52	0.43	0	1.63	0.82	0
	0.09	1	b3232	0.54	0.15	1	0.67	0.19	1
	0.09	1	b3257	0.7	0.65	0	1.67	0.87	0
	0.11	1	b0641	0.49	0.08	1	0.61	0.25	1
	0.05	1	b0662	0.99	0.25	1	1.17	0.9	1
	0.06	1	b0692	1.39	0.37	0	1.49	0.26	0
	0.14	1		1.18	0.27	0	0.77	0.6	1
	0.08	1	b1783	1	0.18	0	1.33	0.3	1
	0.08	n/a	b2059	1.17	0.49	0	1.3	0.34	0
	0.15	1		1.2	0.24	0	1.87	0.59	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.18	1	b2662	1.14	0.32	0	1.27	0.41	0
	0.15	1		1.39	1.2	0	1.3	0.25	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1	b0932	1.1	0.11	1	0.48	0.14	1
	0.07	1	b1591	1.25	0.29	0	1.38	0.6	0
	0.15	1	b3346	0.37	0.39	1	0.34	0.09	1
	0.07	1	b0947	0.67	1.41	1	1.03	0.27	1
	0.03	1	b1630	1.1	1.25	0	1.66	0.89	1
	0.06	1	b3301	0.41	0.08	1	0.2	0.06	1
	0.16	1	b3358	0.75	0.23	1	0.83	0.22	1
	0.06	1	b3403	0.8	0.18	1	0.26	0.08	1
	0.11	1		1.2	0.2	0	1.15	0.54	1
	0.07	n/a		2.16	0.53	1	1.36	0.27	0
	0.06	1	b1097	0.8	0.36	0	1.11	0.22	0
	0.06	1	b1117	0.69	0.34	0	1.47	0.37	0
	0.06	1	b3437	1.61	0.35	0	1.61	0.31	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0

n/a	n/a		n/a	n/a	0	n/a	n/a	0	
	0.1	1		1.04	0.37	0	1.46	0.32	0
	0.06	1 b3930		0.81	0.19	1	1.38	0.48	1
	0.08	1 b3965		0.65	1.02	1	0.5	0.17	1
	0.12	1		1.36	0.74	0	1.49	0.17	0
	0.1	1		0.99	1.22	0	1.51	0.82	0
	0.07	1 b2344		0.92	0.6	1	1	0.36	1
	0.09	1 b0864		0.96	0.38	0	0.98	0.3	1
	0.05	1 b2463		0.56	0.08	1	0.24	0.07	1
	0.07	1 b2494		0.57	0.08	1	0.52	0.13	1
	0.1	1		1.07	0.17	0	1.6	0.62	0
	0.08	n/a		1.14	0.18	0	1.3	0.23	0
	0.11	1		1.33	0.39	0	1.41	0.52	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.09	1 b2743		0.68	0.29	1	0.91	0.4	1
	0.13	1 b2780		0.24	0.13	1	0.27	0.27	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.04	1 b1740		0.88	0.25	1	0.63	0.2	1
	0.04	1 b1649		1.41	0.58	0	1.38	0.38	0
	0.1	0 b1953		1.59	0.62	0	1.84	0.34	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.07	1 b2242		5.11	1.5	1	2.09	0.8	1
	0.06	1		2.51	0.4	1	1.16	0.39	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.09	n/a		1.41	0.66	0	1.48	0.19	0
	0.09	1 b1034		0.78	0.2	1	0.99	0.18	1
	0.07	1 b1765		0.94	0.08	0	0.82	0.32	1
	0.07	1 b1640		0.85	0.32	0	1.55	1.55	0
	0.08	1 b1610		1.44	0.88	1	1.09	0.21	1
	0.11	1 b1607		1.41	0.21	0	1.42	0.49	0
	0.06	1 b1053		1.08	0.47	0	1.39	0.46	0
	0.1	1		5.7	1.46	1	1.5	0.65	0
	0.06	1 b1633		0.79	0.14	1	0.88	0.2	1
	0.06	1 b1959		1.23	0.21	0	1.24	0.29	1
	0.07	1 b2022		1.26	0.22	0	0.96	0.25	1
	0.09	1 b1763		0.99	0.32	1	0.91	0.12	1
	0.1	1 b1642		1.04	0.2	1	1.06	0.27	1
	0.16	0 b1654		0.74	0.09	1	0.72	0.13	1
	0.08	1 b1614		0.55	0.12	1	0.44	0.12	1
	0.06	1		1.76	0.6	0	1.55	0.38	0
	0.1	1 b3742		0.61	0.5	0	0.82	0.31	1
	0.11	1		1.74	0.82	1	1.33	0.22	1
	0.1	1 b2564		0.75	0.13	1	1.45	0.41	0
	0.1	1 b0400		0.98	1.72	0	1.39	0.23	0
	0.1	1 b4014		0.14	0.06	1	0.08	0.03	1
	0.08	1		1.39	0.5	0	1.79	0.64	0
	0.06	1 b1727		0.91	0.2	0	1.19	0.3	1
	0.09	1		1.15	0.34	0	1.08	0.84	0
	0.07	1 b1950		1.08	0.39	0	2.31	0.51	0
	0.06	1 b1624		0.56	0.14	1	0.53	0.15	1

	0.06	1 b1593	1.5	0.91	0	1.5	0.26	0
	0.09	1	0.65	0.16	1	1	0.23	1
	0.08	1	0.99	0.33	0	1.25	5.12	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.18	0 b3029	1.28	0.24	1	0.93	0.31	1
	0.1	1 b3463	1.12	0.18	0	0.93	0.26	1
	0.13	1 b3385	0.66	0.41	1	0.89	0.1	1
	0.08	1	1.47	0.61	0	1.4	0.59	0
	0.06	1	1.54	2.53	0	1.4	0.71	0
	0.06	1 b0453	1.11	0.5	1	0.89	0.41	1
	0.07	0	1.42	0.59	0	1.36	0.71	0
	0.11	1 b4226	0.28	0.19	1	0.2	0.07	1
	0.06	1 b4354	0.33	0.04	1	0.2	0.06	1
	0.11	1 b3039	0.94	0.22	0	1.74	2.23	0
	0.09	1 b3081	1.02	0.22	0	1.46	0.83	0
	0.12	1 b3085	1.27	0.39	0	1.34	0.27	0
	0.13	1	1.08	0.38	0	1.74	0.57	0
	0.07	1 b2297	0.65	0.11	1	0.48	0.25	1
	0.07	1	1.02	0.23	0	0.82	0.34	1
	0.08	1 b0518	1.75	0.51	0	1.4	0.39	0
	0.1	1 b0517	1.43	0.57	0	1.88	0.5	0
	0.1	1	0.75	0.22	1	0.92	0.21	1
	8.16	1	1.59	0.21	1	0.97	0.2	1
	0.05	1 b0653	0.6	0.07	1	0.84	0.2	1
	0.19	1	3.09	0.74	1	0.8	0.37	1
	0.15	1 b2568	0.64	0.13	1	0.52	0.13	1
	0.05	1 b2026	0.89	0.17	0	0.86	0.36	1
	0.08	1 b3871	0.24	0.24	1	0.21	0.04	1
	0.06	1 b0856	1.16	0.57	1	0.97	0.15	1
	0.12	1 b3291	1.23	0.81	0	1.08	0.25	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
	0.03	1 b1083	1.04	0.08	0	1	0.18	1
	0.1	1 b2566	0.36	0.12	1	0.43	0.14	1
	0.11	1	0.19	0.01	1	0.27	0.16	1
	0.06	1 b2551	0.3	0.04	1	0.13	0.15	1
	0.1	1 b1014	1	0.2	1	0.19	0.46	1
	0.08	1 b1613	0.63	0.33	1	0.53	0.39	1
	0.04	1 b0844	1.41	0.26	0	1.54	0.51	0
	0.06	1 b0818	0.9	0.1	0	1.06	0.17	0
	0.16	0	1.36	0.65	0	1.76	0.68	0
	0.14	0	1.46	0.41	0	1.95	0.58	0
	0.04	1	1.7	3.37	0	1.56	0.6	0
	0.12	1	1.34	0.3	1	1.17	0.2	1
	0.08	1 b1908	1.81	0.77	1	1.29	0.43	1
	0.06	1 b1329	0.89	0.11	1	0.4	0.07	1
	0.06	1 b1306	1.43	0.51	0	1.81	0.43	0
	0.12	1	1.16	0.5	0	1.4	0.55	0
	0.18	1 b0028	1.26	0.16	1	0.87	0.34	1
	0.05	1	1.21	0.39	0	1.16	0.15	1
	0.26	0	1.69	1.6	0	1.82	0.54	0
	0.09	1 b3878	1.8	0.41	0	1.66	0.61	0
	0.1	1 b3460	1.5	0.48	0	1.7	0.4	0

0.15	n/a		1.51	0.85	0	1.86	1.15	0
0.03	n/a		1.1	0.34	1	1.32	0.58	1
0.11	1		1.06	0.26	0	1.46	0.49	0
0.09	1	b1868	0.56	0.4	1	0.71	0.21	1
0.08	1		1.59	0.47	0	1.85	0.49	0
0.06	1	b2844	0.34	0.06	1	0.45	0.92	1
0.17	0	b3065	0.25	0.08	1	0.25	0.16	1
0.11	1		1.23	0.3	0	1.31	0.09	0
0.07	1	b3831	2.71	0.43	1	1.58	0.7	1
0.12	1		0.52	0.06	1	0.42	0.09	1
0.07	1	b2914	0.52	0.57	1	0.21	0.03	1
0.11	1	b3794	1.07	0.27	0	1.54	0.39	0
0.16	1	b2951	0.78	0.24	1	0.84	0.17	1
0.3	1	b3986	0.47	0.16	1	0.17	0.03	1
0.03	1		1.34	0.4	1	0.64	0.24	1
0.04	1		1.26	0.34	0	1.18	3.28	1
0.14	1	b3867	0.35	0.07	1	0.41	0.14	1
0.12	1	b2839	1.29	0.71	0	1.23	0.65	0
0.03	1		1.68	0.52	0	1.71	0.49	0
0.06	1		0.75	0.12	1	0.55	0.32	1
0.06	n/a	b3765	1.42	0.46	0	1.32	0.6	1
0.08	n/a		1.77	0.35	1	0.99	0.47	1
0.1	1		1.29	0.45	0	1.53	1.11	0
0.04	1	b1478	0.99	0.14	1	0.61	0.34	1
0.07	1	b1428	1.34	0.24	1	0.96	0.38	1
0.09	1	b1381	1.38	0.36	0	1.01	0.22	0
0.07	1		1.16	0.25	0	1.48	0.53	0
0.07	1		1.2	0.4	0	1.14	0.32	0
0.03	1	b1540	0.99	0.2	1	0.91	0.22	1
0.05	1	b0930	0.3	0.14	1	0.21	0.03	1
0.06	1	b0588	3.2	0.6	1	2	0.84	1
0.11	1		1.57	0.97	0	1.82	0.38	0
0.08	1		0.93	0.18	0	1.59	1.24	1
0.05	1	b1449	1.08	0.24	1	0.82	0.23	1
0.06	1	b1822	0.98	0.26	1	0.95	1.07	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	1		0.81	0.12	1	1.13	0.31	1
0.1	1	b1902	1.2	0.35	0	1.81	0.28	0
0.06	1	b0505	1.14	0.24	0	1.33	0.31	0
0.1	1		0.36	0.18	1	0.44	0.12	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07	1	b0394	0.95	0.27	0	1.39	0.25	0
0.12	1	b2997	1.24	0.24	1	1.21	0.25	1
0.08	1	b2701	2	0.51	0	1.45	0.53	0
0.03	1		1.11	0.49	0	1.42	0.3	0
0.06	1		1.12	0.22	1	0.7	0.1	1
0.1	1		1.63	0.86	0	1.75	0.43	0
0.09	1	b3660	1.46	0.61	0	1.49	0.21	0
0.12	1	b2818	1.34	0.24	0	1.47	0.5	0
0.12	1		1.67	0.41	0	1.6	0.13	0
0.14	1	b2956	0.96	0.15	1	0.95	0.24	1
0.06	1	b0452	0.86	0.24	1	0.95	0.64	0

0.08	1		1.39	0.24	0	1.27	0.72	0
0.11	1 b3634		0.75	0.56	0	1.72	0.08	0
0.12	1 b2798		0.82	0.12	1	0.82	0.33	1
0.07	1 b2843		1.19	0.32	0	1.24	0.53	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	1		1.09	0.28	0	1.4	0.12	0
0.09	1 b2699		6.3	0.96	1	3.97	2.23	1
0.12	1 b2061		1.45	0.32	0	1.79	0.58	0
0.07	n/a		1.59	0.29	0	1.48	0.65	0
0.02	1 b3621		0.76	0.14	1	0.7	0.17	1
0.22	0 b3316		0.38	0.08	1	0.26	0.09	1
0.06	1 b3211		1.19	0.32	0	1.17	0.51	0
0.11	1		1.04	0.38	0	1.03	0.22	1
0.11	1 b3496		1.36	0.8	1	1.1	0.16	1
0.05	1		1.2	0.32	0	1.54	0.31	0
0.12	1		1.28	0.49	0	1.72	0.43	0
0.1	1		1.34	0.16	1	1.37	0.26	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.12	0		1.49	0.51	0	2.14	0.6	0
0.1	1 b4141		1.23	0.46	1	1.22	0.68	1
0.08	1 b2689		0.98	0.11	1	0.97	0.43	1
0.12	1		0.94	0.29	1	1.24	0.39	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1		1.6	0.24	0	1.63	0.34	0
0.05	1		1.48	0.46	0	1.48	0.36	0
0.09	1		0.89	0.34	0	1.19	0.46	1
0.1	1 b0956		1.17	0.14	1	0.67	0.25	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.05	1 b0815		1.1	0.16	0	1.28	0.58	1
0.09	1 b1749		2.85	0.57	1	1.56	0.47	1
0.03	1 b3128		3.8	2.56	1	1.15	0.3	1
0.09	1 b0792		2.55	3.37	1	1.64	0.21	0
0.14	1 b2906		0.79	0.16	1	0.91	0.27	1
0.08	1		1.52	0.4	1	1.1	0.19	1
0.08	1 b3088		0.89	0.13	0	1.1	0.26	1
0.09	1		1.19	0.3	0	1.27	0.44	0
0.02	1		1.21	0.36	0	1.41	1.47	0
0.07	1		0.79	0.08	1	0.63	0.75	1
0.12	1		1.48	0.29	0	1.84	0.42	0
0.1	1		0.88	0.19	1	0.92	0.2	1
0.14	0		1.45	0.64	0	1.78	0.94	0
0.02	1		1.32	0.17	0	1.33	0.51	0
0.02	1 b0760		1.06	0.14	1	1.35	0.32	1
0.09	1		0.8	0.19	1	1	0.1	1
0.1	1 b2526		0.48	0.1	1	0.68	0.19	1
0.08	1 b2471		0.57	0.28	1	0.79	0.31	1
0.06	1 b0466		1.24	0.21	0	1.49	0.28	0
0.08	1 b1195		1.14	0.47	0	1.56	0.8	0
0.12	1 b4023		0.79	0.11	0	1.39	0.39	1
0.25	1 b4353		0.64	0.59	1	0.48	0.21	1
0.05	1 b3425		1.4	0.45	1	0.97	0.3	1
0.1	1 b3459		0.93	0.27	0	1.37	0.35	0

	0.16	1		1.19	0.4	0	1.68	0.62	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.06	1		1.14	0.44	0	1.83	0.57	0
	0.21	0	b3561	1.77	0.42	0	1.58	0.51	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.08	1	b0239	1.32	0.28	1	0.95	1.01	1
	0.07	1	b0004	1.53	0.32	1	1.31	0.65	1
	0.07	1		1.44	0.28	1	1.47	0.43	1
	0.03	n/a	b1648	1.23	0.15	0	1.78	0.3	0
	0.1	1		1.59	0.21	0	1.7	0.18	0
	0.08	1		0.72	0.09	1	0.96	0.16	1
	0.06	n/a		1.37	0.6	0	1.72	0.57	0
	0.01	1		1.29	0.35	0	1.3	0.36	0
	0.15	0	b1058	0.97	0.36	0	1.63	0.75	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.13	1	b3156	0.92	0.24	1	1.16	0.39	1
	0.1	1	b3101	0.89	0.18	0	1.54	2.98	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	1	b0917	0.95	0.26	1	1.26	0.29	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.05	1	b0751	0.96	0.2	0	1.28	0.26	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.05	1		2.12	0.26	1	1.54	0.3	0
	0.05	n/a		0.86	0.27	0	1.33	0.38	0
	0.08	n/a	b0061	1.38	0.54	0	1.95	0.29	0
	0.05	n/a	b0186	1.22	0.18	1	1.11	0.25	1
	0.04	1		1.24	0.41	0	1.26	0.26	1
	0.06	n/a	b0903	1.47	0.34	1	0.4	0.14	1
	0.09	n/a		0.96	0.42	1	0.96	0.16	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.1	n/a	b3266	1.06	0.17	1	1.17	0.29	1
n/a	n/a		n/a	n/a		0	n/a	n/a	0
	0.05	1		1.53	0.75	0	1.65	0.4	0
	0.08	1	b3789	1.1	0.18	1	0.74	0.48	1
	0.12	1		0.83	0.14	1	1.06	0.4	1
	0.06	n/a		1.61	0.27	1	2.04	1.5	1
	0.06	1		1.37	0.34	0	1.43	0.31	0
	0.06	1	b1536	1.32	0.3	0	1.93	0.61	0
	0.12	0		1.4	1.11	0	2.06	0.87	0
	0.1	1		1.27	0.24	0	1.23	0.43	1
	0.05	n/a		1.6	0.24	1	1	0.33	1
	0.09	1		0.74	0.16	1	1.41	0.42	1
	0.07	1		1.42	0.51	0	1.51	0.72	0
	0.07	1		1.45	0.59	0	1.64	0.64	0
	0.06	1		1	1.73	0	2.25	0.62	0

0.07	1		0.94	0.24	0	1.45	0.56	1
0.07	n/a		1.62	0.33	1	1.23	0.34	1
0.08	1		1.14	0.24	0	1.1	0.23	1
0.06	1		1.22	0.2	0	1.34	0.53	1
0.1	1		1.3	0.27	0	1.64	0.42	1
0.08	1		1.06	0.3	0	1.92	0.57	0
0.03	1		0.97	0.16	0	1.49	0.29	0
0.08	1		1.03	0.31	1	1.67	1.1	0
0.11	1		1.2	0.68	0	2.13	0.84	0
0.06	1		1.23	0.2	0	1.8	0.37	0
0.04	1		0.94	0.21	0	1.63	0.5	1
0.08	1		0.99	0.08	1	0.8	0.34	1
0.07	1		0.9	0.21	0	1.32	0.38	0
0.06	1		1.54	0.28	0	1.04	0.3	1
0.08	1		1.71	0.44	1	1.49	1.1	1
0.07	1		1.58	0.22	0	1.75	0.45	0
0.1	1		1.43	0.24	0	1.08	0.31	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.12	1		1.12	0.26	0	0.92	0.59	1
0.06	1	b0474	0.21	0.01	1	0.35	0.03	1
0.08	1		1.16	0.27	0	1.38	0.28	0
0.16	1	b3667	1.22	0.33	0	1.4	0.28	0
0.05	1		1.41	0.32	0	1.42	0.4	0
0.12	1	b0051	0.5	0.23	1	0.47	0.14	1
0.06	1		0.79	0.16	1	0.6	0.13	1
0.16	0	b3188	1.16	0.2	0	1.59	0.52	0
0.17	1	b3230	0.45	0.13	1	0.69	0.22	1
0.1	1		0.23	0.04	1	0.27	0.1	1
0.1	1	b0634	0.98	0.08	1	0.96	0.19	1
0.08	1	b0652	0.49	0.24	0	1.3	0.48	0
0.05	1	b0124	1.04	0.12	0	1.39	0.39	0
0.18	1	b0147	1.16	0.24	0	1.14	0.23	0
0.09	1	b0177	0.51	0.12	1	0.29	0.05	1
0.05	1	b1542	1.27	0.25	0	1.53	0.6	0
0.04	1		1.35	0.12	1	1.02	0.25	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1	b3462	1.38	0.14	1	1.35	0.69	0
0.06	1	b4374	0.5	0.17	1	0.92	0.36	1
0.07	1		1.09	0.16	0	1.69	0.37	0
0.07	1	b0221	0.56	0.1	1	0.84	0.2	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.1	1	b0955	0.47	0.2	1	0.65	0.14	1
0.14	n/a		1.34	0.29	0	1.5	0.94	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.06	1	b0960	0.88	0.22	0	1.07	0.54	1
0.05	1	b1004	1.73	0.27	1	1.96	0.36	0



	0.12	1 b1055	0.56	0.2	0	0.76	0.12	1
	0.17	1 b3857	1.04	0.15	0	1.03	0.25	1
	0.07	0	1.4	0.13	0	1.79	0.49	0
	0.06	1 b1036	1.05	0.44	0	1.91	0.31	0
	0.14	0 b1094	0.42	0.04	1	0.18	0.08	1
	0.08	1 b1114	0.77	0.18	1	0.9	0.25	1
	0.09	1 b3432	1.46	0.22	1	0.69	0.36	1
	0.04	1 b1048	0.56	0.05	1	0.41	0.09	1
	0.05	1 b3398	0.63	0.3	1	1.05	0.27	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1 b1786	1.1	0.24	0	1.68	0.33	0
	0.09	1	1.54	0.27	0	1.46	0.37	0
	0.16	1 b3927	1.63	0.26	1	0.97	0.21	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.13	1 b4064	0.67	0.23	1	1.37	0.31	1
	0.08	1	1.51	0.17	0	1.64	2.01	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.08	1 b0862	0.47	0.14	1	0.84	0.28	1
	0.08	1 b2400	0.31	0.05	1	0.52	0.15	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1 b0876	0.91	0.34	0	0.93	0.23	1
	0.07	1	1.49	0.37	0	1.62	0.62	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.06	1 b4111	1.08	0.26	0	1.25	0.52	1
	0.14	1	0.19	0.18	1	0.29	0.09	1
	0.06	1 b2328	0.61	0.17	1	1.26	0.62	0
	0.11	1 b2408	1.84	0.59	0	1.35	1.44	0
	0.06	1 b2466	0.81	0.27	0	1.26	0.47	0
	0.12 n/a	b2504	1.22	0.31	0	1.9	0.75	0
	0.08	1	0.97	0.24	0	1.29	0.25	1
	0.13	1	1.62	0.3	0	2.02	0.75	0
	0.07	1 b4201	0.32	0.08	1	0.21	0.04	1
	0.06	1 b2206	1.91	1.24	0	2.2	0.73	0
	0.06 n/a	b4265	1.49	0.23	0	1.64	0.56	0
	0.1	1 b2294	0.94	0.21	1	0.75	0.09	1
	0.27	1 b2286	0.3	0.06	1	0.21	0.04	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.05	1 b1920	1.22	0.2	1	1.12	0.26	1
	0.17	1 b3336	1.73	0.36	0	1.45	0.36	0
	0.09	1 b0961	1.02	0.18	0	1.7	0.95	0
	0.08	1 b1123	0.34	0.04	1	0.34	0.14	1
	0.08	1 b2460	1.22	0.8	0	1.68	0.48	0
	0.03	1 b1125	0.87	0.06	0	1.22	8.22	0
	0.08	1	0.89	0.29	0	1.09	0.46	1
	0.1	1 b4182	1.3	0.13	0	1.69	0.48	0
	0.09	1 b4216	1.15	0.17	0	0.94	0.32	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.17	1	1.4	0.55	0	2.45	1.15	0
	0.06	1	1.33	0.29	0	1.94	0.65	0
	0.15	1 b1237	0.36	0.09	1	0.25	0.1	1

	0.1	1 b1072		1.2	0.2	0	1.56	0.88	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b3671		1.15	0.19	0	1.46	0.55	0
	0.16	0 b3731		0.58	0.1	1	0.62	0.12	1
	0.09	1 b2574		1.46	0.32	0	1.45	0.58	0
	0.06	1 b0195		0.44	0.11	1	0.87	0.15	1
	0.04	1		0.55	0.11	1	1.01	0.31	1
	0.08	1 b2327		0.79	0.17	1	1.15	0.41	0
	0.05	1		1	0.4	0	1.7	0.52	0
	0.03	1 b1703		0.43	0.37	1	0.62	0.2	1
	0.08	1		0.26	0.06	1	0.07	0.02	1
	0.14	1 b3456		1.36	0.55	0	1.54	0.32	0
	0.07	1		1.55	0.24	0	1.6	1.2	0
	0.13	0 b2204		3.39	1.61	1	1.76	0.53	0
	0.17 n/a			1.57	0.51	0	1.95	0.57	0
	0.1	1 b4371		0.81	0.29	0	1.23	0.64	0
	0.08	1 b3551		1.22	0.25	0	1.4	0.71	0
	0.16	1		0.97	1.31	0	1.72	0.54	0
	0.08	1 b3163		1.56	0.25	1	1.37	1.29	1
	0.26	0 b2399		1.28	0.66	0	1.54	0.92	0
	0.12 n/a	b2513		0.47	0.24	1	0.67	0.26	1
	0.07	1		1.19	0.19	0	1.1	1.01	1
	0.07	1		1.92	0.55	0	1.95	0.63	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.12	1 b4386		1.44	0.38	1	1.05	0.61	0
	0.09	1 b3574		0.99	0.34	0	1.19	0.45	0
	0.09	1 b3520		1.22	0.26	0	1.74	0.78	0
	0.16	1		1.2	0.61	1	1.29	0.43	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1		0.65	0.1	1	0.86	0.17	1
	0.05	1		0.82	0.33	0	0.97	0.49	1
	0.05	1 b4114		0.22	0.11	1	0.2	0.04	1
	0.1	1 b1068		1.34	0.27	0	1.47	0.34	0
	0.13	1 b2441		1.23	0.27	0	1.78	0.33	0
	0.1	1 b3887		1.02	0.37	0	1.4	0.35	1
	0.06	1 b0628		0.63	0.06	1	0.74	0.19	1
	0.09	1		1.42	0.48	0	1.68	0.91	0
	0.04	1		1.28	0.26	0	1.42	0.16	0
	0.11	1		0.73	0.16	1	0.48	0.19	1
	0.04	1 b0788		1.58	0.5	0	1.55	0.82	0
	0.03	1 b0765		1.59	0.32	1	1.75	0.45	0
	0.04	1 b1676		0.41	0.1	1	0.31	0.08	1
	0.03	1 b2306		0.78	0.22	0	1.47	0.49	0
	0.05	1 b0074		0.87	0.18	0	1.16	0.17	1
	0.04	1 b0161		0.51	0.08	1	0.64	0.28	1
	0.13	1 b0440		0.94	0.08	0	0.76	0.22	1
	0.12	1 b3290		1.01	0.15	1	0.69	0.4	1
	0.63	0		1.12	0.3	0	1.46	0.62	0
	0.09	1 b0532		0.56	0.13	1	0.2	0.05	1
	0.06	1 b0715		0.94	0.26	1	1.17	0.3	1
	0.1	1 b0729		0.95	0.16	1	0.27	0.05	1
	0.06	1 b4004		1.11	0.25	0	1.09	0.28	1

0.18	1	b3497	1.57	0.37	0	1.93	0.82	0
0.07	1		1.45	0.56	0	1.24	0.65	0
0.13	n/a		0.64	0.22	0	0.76	0.17	1
0.08	1	b2282	0.4	0.08	1	0.48	0.15	1
0.12	1	b3240	1.16	0.4	0	1.5	0.57	0
0.11	n/a		1.28	0.4	0	1.74	0.7	0
0.06	1	b2600	1.11	0.14	0	1.51	0.6	0
0.09	1		1.3	0.37	0	2.03	0.8	0
0.1	1	b3883	1.4	0.25	0	1.64	0.79	0
0.04	1	b3999	0.68	0.2	1	1.02	0.36	1
0.16	0	b2718	1.18	0.13	0	1.38	0.7	0
0.04	1	b3876	1.61	0.54	0	1.62	0.32	0
0.08	1	b0661	0.34	0.08	1	0.25	0.03	1
0.04	1	b0445	0.83	0.15	0	1.19	0.33	1
0.13	1	b4070	1.16	0.55	0	1.26	0.15	0
0.05	1		1.29	0.37	0	1.88	0.41	0
0.11	1	b3259	0.58	0.17	0	1.19	0.34	1
0.09	1	b2813	0.45	0.06	1	0.52	0.27	1
0.09	1	b2738	1.34	0.61	0	1.62	0.51	0
0.13	1		0.47	0.16	1	0.88	0.32	1
0.09	1		0.62	0.22	1	0.95	0.21	1
0.12	1		0.78	0.34	0	1.05	0.43	0
0.1	1	b3771	0.88	0.2	0	0.98	0.52	1
0.1	1		1.2	0.39	0	1.69	0.58	0
0.08	0	b3769	1.23	0.27	0	1.9	0.55	0
0.08	n/a	b2516	0.48	0.26	1	0.7	0.28	1
0.05	1	b1176	0.44	0.06	1	0.27	0.04	1
0.08	1	b1257	1.4	0.29	0	1.75	0.37	0
0.07	1	b2800	1.15	0.37	0	1.23	0.6	0
0.07	1	b2753	1.27	0.24	0	1.24	2.09	0
0.1	n/a	b3827	1.4	0.33	0	1.45	0.45	0
0.07	1	b3805	0.61	0.22	1	1.01	0.18	1
0.11	1	b3981	0.43	0.13	1	0.3	0.09	1
0.11	1	b1814	0.44	0.13	1	0.56	0.15	1
0.08	1		0.49	0.11	1	0.77	0.15	1
0.05	1	b1206	1.17	0.22	1	1.3	1.01	1
0.06	1	b1819	1.64	0.47	1	1.35	0.58	1
0.05	1	b1840	0.58	0.16	1	0.96	0.15	1
0.09	1	b1866	0.31	0.05	1	0.28	0.09	1
0.04	1	b0508	1.57	0.7	0	1.27	0.6	0
0.1	n/a	b0527	0.86	0.3	0	1.48	0.43	0
0.09	n/a		1.03	0.4	0	1.38	0.49	0
0.07	1	b1453	1.04	0.21	0	1.38	0.28	0
0.05	1		1.25	0.28	0	1.69	0.39	0
0.04	n/a		1.11	0.43	0	1.58	0.17	0
0.06	1		0.35	0.02	1	0.33	0.13	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	n/a		1.37	0.26	0	1.06	3.18	1
0.06	1		1.17	0.24	0	1.5	0.58	0
0.04	1	b1285	0.99	0.17	0	1.4	0.39	0
0.03	1		1.23	0.22	0	1.3	0.35	0
0.03	1	b0915	0.7	0.17	1	1.01	0.27	1

0.08	1	b0893	0.47	0.16	1	0.37	0.07	1
0.1	1		0.88	0.32	0	1.55	0.45	0
0.11	1		1.68	0.46	0	2.01	0.55	0
0.12	n/a		1.24	0.46	1	1.68	0.3	0
0.11	1		0.78	0.18	1	0.79	0.22	1
0.05	1	b3592	0.93	0.14	1	0.93	0.32	1
0.15	n/a		1.22	0.25	0	1.76	0.54	0
0.07	1	b3026	1.24	1.04	0	1.3	0.63	0
0.08	1	b2616	7.17	0.77	1	4.94	3.93	1
0.13	n/a	b2896	1	0.26	1	1.25	0.42	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b3485	1.31	0.15	1	1.25	0.21	1
0.03	1	b3536	0.94	0.13	1	1.66	0.66	1
0.05	1	b3654	1.06	0.35	0	1.11	0.38	1
0.13	1	b2604	1.15	1.06	1	0.82	0.4	1
0.12	n/a		0.93	0.57	0	1.79	0.85	0
0.1	1	b2942	0.48	0.56	1	0.42	0.12	1
0.02	1	b0433	0.77	0.28	1	0.67	0.15	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09	1	b2075	1.23	0.34	0	1.57	1.01	0
0.09	1	b2137	1.37	0.55	0	1.65	0.68	0
0.14	0	b3293	1.39	0.58	0	1.33	0.34	0
0.09	1	b0879	1.06	0.28	1	1.07	0.17	1
0.11	1	b4198	1.2	0.42	0	1.05	0.43	1
0.14	1	b4261	0.87	0.43	1	1.05	0.33	1
0.07	1	b0867	0.96	0.45	0	1.36	0.44	0
0.05	1	b4178	1.12	0.35	1	1.01	0.2	1
0.08	1	b3118	1.63	0.37	1	1.43	0.37	1
0.08	1	b2994	1.58	0.72	1	1.04	0.37	1
0.11	0	b2704	2.1	0.42	1	1.59	0.52	0
0.08	1	b2712	0.79	0.12	0	1.31	0.48	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.15	0	b2720	1.33	0.3	0	1.64	0.19	0
0.15	0	b2185	0.82	0.22	0	0.63	0.09	1
0.04	1	b2054	1.18	0.37	0	1.76	0.52	0
0.06	1		1.28	0.62	0	1.81	0.6	0
0.08	1	b1215	0.4	0.08	1	0.35	0.07	1
0.23	0	b2946	1.34	0.39	0	2.25	2.19	0
0.06	1		1.06	0.62	0	1.5	0.37	0
0.06	1	b0779	1.16	0.32	1	1.14	1.11	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.08	0	b3206	1.17	0.46	0	1.25	0.5	1
0.09	1		0.86	0.47	0	1.51	1.63	0
0.06	1	b0820	0.66	0.19	1	0.86	0.22	1
0.06	1		0.88	0.19	1	0.54	0.12	1
0.09	1		1.1	0.37	0	1.46	0.46	0
0.13	1		1.07	0.24	0	1.76	0.41	0
0.08	1	b2214	0.72	0.06	1	0.73	0.24	1
0.14	0	b0736	0.8	0.23	0	1.26	0.8	0
0.11	1		0.83	0.24	1	0.96	0.18	1
0.08	0	b3098	0.72	0.3	1	1.02	0.56	1
0.11	0		1.25	0.57	0	1.65	0.44	0

	0.08	1		1.28	0.33	0	1.27	0.36	1
	0.05	n/a		1.35	0.37	1	0.74	0.39	1
	0.04	1		0.86	0.23	0	1.08	0.26	1
	0.09	1		2.13	0.63	1	0.55	0.31	1
	0.17	1	b3637	0.21	0.06	1	0.2	0.07	1
	0.11	1		0.69	0.42	1	0.52	0.45	1
	0.08	0		1.35	0.4	0	1.72	0.55	0
	0.08	1	b1811	1.13	0.7	0	1.04	0.35	1
	0.09	1		1.1	0.47	0	1.68	0.59	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.04	1		1.19	0.29	1	1.03	0.67	1
	0.11	1	b3410	1.53	0.58	0	2.08	0.82	0
	0.11	1	b3982	0.39	0.18	1	0.42	0.25	1
	0.16	1	b3762	0.89	0.13	1	0.93	0.6	1
	0.09	1		0.48	0.12	1	0.79	0.41	1
	0.14	n/a		0.98	0.17	0	1.34	0.61	1
	0.04	1	b1448	1.12	0.19	0	1.64	0.36	0
	0.04	1	b0062	1.39	0.57	0	1.61	0.4	0
	0.02	n/a	b1621	0.73	0.36	0	1.15	0.44	1
	0.13	0		1.32	0.33	0	1.78	1.14	0
	0.1	1		1.33	0.14	0	1.54	1.06	0
	0.1	1	b2666	1.38	0.31	0	1.87	0.61	0
	0.18	0	b0075	1.35	0.46	0	1.78	1.21	0
	0.21	n/a		1.42	0.65	0	2.14	1.04	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.06	n/a		1.19	0.89	0	1.26	0.4	0
	0.16	0	b3672	1.2	0.47	0	1.82	0.61	0
	0.08	1	b3170	0.48	0.1	1	0.41	0.17	1
	0.09	1	b3176	0.56	0.11	1	0.72	0.31	1
	0.05	1		1.39	0.23	0	1.96	0.68	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.17	1	b0735	1.59	0.26	1	1.45	1.05	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.09	1		1.44	0.56	0	1.38	0.16	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.07	n/a	b0008	0.42	0.15	1	0.2	0.07	1
	0.09	n/a		1.05	0.32	1	0.3	0.08	1
	0.07	n/a	b2041	0.69	0.4	1	0.65	0.17	1
	0.11	n/a	b2167	1.05	1.32	0	1.14	0.28	1
	0.05	n/a	b2171	0.25	0.09	1	0.4	0.15	1
	0.05	n/a		1.07	0.45	0	1.61	1.19	0
	0.11	n/a		1.14	0.29	1	0.73	0.22	1
	0.06	n/a	b3114	1.44	0.47	1	1.41	0.58	0
	0.06	n/a		0.66	0.16	1	0.91	0.32	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.08	1		1.34	1.02	0	1.56	0.65	0

0.05	1		1.52	0.26	0	1.86	0.42	0
0.05	1		1.14	0.38	0	1.65	0.72	0
0.16	n/a		1.28	0.99	0	2.15	0.4	0
0.06	1		1.06	0.72	1	0.76	0.38	1
0.08	1		1.48	0.44	0	1.73	0.82	0
0.09	1		1.11	0.5	0	1.24	0.21	1
0.08	1		10.64	7.21	1	13.31	5.74	1
0.07	1		1.82	0.47	0	2.62	0.81	0
0.06	1		1.28	0.33	1	1.49	0.4	1
0.09	1		1.3	0.31	0	1.33	0.93	0
0.08	1		1.28	0.37	0	1.64	2.17	0
0.11	1		4.13	1.07	1	4.69	2.99	1
0.05	n/a		0.96	0.28	0	1.35	0.3	0
0.13	1		0.9	0.39	0	1.35	0.35	0
0.1	0		1.36	0.27	0	1.44	0.74	0
0.08	1		1.25	0.64	0	1.98	0.51	0
0.08	1		1.2	0.63	0	1.79	0.54	0
0.16	n/a		0.97	2.3	0	1.19	0.46	1
0.06	1		1.25	0.71	0	1.43	0.16	0
0.07	n/a		1.63	0.86	1	1.51	0.22	1
0.03	1		1.15	0.47	1	0.89	0.23	1
0.04	1		1.33	0.2	0	1.6	0.68	0
0.1	n/a		0.94	0.39	0	1.89	0.66	0
0.06	1		1.48	0.51	0	1.56	0.27	0
0.04	1		1.33	0.94	1	1.14	0.51	1
0.07	1	b4349	0.51	0.24	1	0.56	0.17	1
0.09	1		1.2	0.35	0	1.53	0.68	1
0.09	1		0.73	0.29	1	0.6	0.44	1
0.18	1		1.05	0.55	0	1.64	16.21	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.06	1	b4112	0.38	0.17	1	0.72	0.85	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.11	1	b3741	0.43	0.12	1	0.59	0.53	1
0.11	1	b3202	1.22	0.32	1	0.6	1.1	1
1.99	0	b3030	0.35	0.13	1	0.99	0.63	1
0.3	1	b3186	0.17	0.03	1	0.21	0.09	1
0.08	1		0.96	0.25	0	1.31	0.99	1
0.11	1	b0096	1.78	0.2	1	0.88	2.65	1
2.1	0	b0122	1.09	0.18	0	1.43	0.89	0
1.01	1	b0144	0.47	0.48	1	1.13	6.47	0
2.74	0		0.57	0.66	1	1.49	0.69	1
1.63	n/a	b1580	1.31	0.39	0	1.38	0.39	0
0.07	1	b3245	0.95	0.12	0	1.04	0.52	1
0.04	1	b0626	0.96	0.24	0	1.53	0.66	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.04	1	b0681	1.64	0.47	1	1.36	1.63	0
0.06	1	b0713	0.9	0.47	0	1.86	0.74	0

	0.1	1		1.11	0.26	0	1.67	0.57	1
	0.04	1 b2045		1.29	0.23	0	1.54	0.61	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.04	1		1.48	0.4	0	1.71	0.38	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.09	1		1.3	0.16	0	1.5	0.29	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.03	1		1.28	0.26	0	1.56	0.23	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.14	0		1.68	0.45	0	2.11	0.71	0
	0.07	1		1.27	0.25	0	1.7	0.8	0
	0.03	1 b3292		0.69	0.16	1	0.96	0.6	1
	0.06	1 b3356		0.82	0.22	1	0.97	0.6	1
	0.06	1 b0967		0.86	0.15	1	0.7	0.74	1
	0.07	1 b1584		0.74	0.09	1	0.72	1.29	1
	0.05	1 b3349		0.36	0.06	1	0.2	0.3	1
	0.12	1		1.12	0.4	0	1.4	0.74	0
	0.05	1 b1136		0.59	0.11	1	0.32	0.35	1
	0.09	1 b1790		0.9	0.15	1	1.19	0.49	1
	0.05	1 b3350		1.09	0.25	0	1.63	0.62	0
	0.05	1 b1107		0.65	0.07	1	1.09	0.35	1
	0.04	1		4.46	1.51	1	3.17	1.05	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.07	1 b3902		1.82	0.49	0	1.65	0.78	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.05	1 b1515		1.57	0.14	1	1.31	0.59	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.16	0 b2732		1.66	0.52	0	1.55	1.12	0
	0.05 n/a	b2736		1.21	0.49	0	1.84	0.47	0
	0.08	1		0.85	0.17	1	1.09	0.9	1
	0.06	1 b2395		1	0.17	0	0.98	1.2	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.11	1 b2474		1.01	0.2	0	1.46	0.69	0
	0.08	1		0.74	0.2	1	1.33	0.65	1
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.13	1 b3920		0.63	0.36	0	1.3	2.35	0
	0.1	1 b4029		1	0.62	0	1.54	0.52	0
	0.07	1		1.42	0.37	0	1.68	0.41	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.06 n/a	b0858		1.29	0.46	0	2.23	0.63	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.1	1 b2517		0.26	0.13	1	0.67	0.26	1
	0.02	1 b1688		0.98	0.13	0	1.66	0.58	0
	0.03	1 b1907		1.27	5.8	0	1.6	0.79	0
	0.18	0		1.92	0.41	0	1.62	0.76	0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
n/a	n/a		n/a	n/a		0 n/a	n/a		0
	0.08	1 b4336		1.55	0.34	0	1.91	0.96	0
	0.3	0		1.29	0.3	0	2.11	1.22	0
	0.07	1 b2316		0.4	0.07	1	1.08	0.79	1
	0.04	1		1.29	0.3	0	2.08	1.13	0

	1.92	0 b1716	0.52	0.13	1	0.74	0.44	1
	0.04	1	0.7	0.22	1	0.54	0.84	1
	0.05	1 b1791	1.05	0.16	0	1.81	0.56	0
	0.02	1 b0964	0.9	0.09	0	1.56	0.57	0
	0.06	1	0.89	0.14	1	1.37	0.45	1
	0.04	1 b2216	0.56	0.14	1	0.99	0.36	1
	0.08	1 b1913	0.62	0.22	0	1.56	0.27	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.04	1 b2212	1.18	0.43	0	2.31	0.83	0
	0.06	1	1.49	0.3	1	1.42	1.03	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07 n/a	b1636	0.79	0.19	1	1.22	0.43	1
	0.05	1 b1601	1.28	0.69	0	1.68	0.5	0
	0.12	1 b4037	1.01	0.14	0	1.41	0.49	0
	0.08	1 b0994	0.87	0.12	1	1.92	0.82	0
	0.17	1 b3675	1.34	0.29	0	1.99	2.2	0
	0.09	1 b0169	0.72	0.29	1	0.26	0.46	1
	0.02	1 b0369	1.54	0.15	1	1.69	0.51	1
	0.07	1 b0094	1.92	0.34	1	1.28	2.65	1
	0.06	1 b2287	0.28	0.04	1	0.46	0.45	1
	0.07	1 b1266	1.39	0.31	1	1.26	0.51	0
	0.06	1	0.4	0.03	1	0.71	0.51	1
	0.09	1	1.37	0.41	0	1.87	0.65	0
	0.02 n/a		0.88	0.11	1	0.37	0.06	1
	0.07	1	0.46	0.1	1	0.27	0.17	1
	0.09	1 b3712	0.76	0.05	1	1	0.3	1
	0.05	1	0.37	0.13	1	1.62	0.55	0
	0.08	1 b2577	1.14	0.18	0	1.58	2.17	0
	0.11	1 b3071	1.12	0.2	0	1.86	0.81	0
	0.08	1 b3424	0.99	0.28	0	1.8	0.68	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b0591	1.52	0.65	0	1.6	0.56	0
	0.02	1 b4191	0.92	0.28	0	1.06	0.36	0
	0.12	1 b4260	0.61	0.08	1	0.52	0.61	1
	0.08	1 b2583	2.17	0.55	1	1.9	0.86	1
	0.07	1 b3054	0.84	0.11	0	1.48	0.64	0
	0.09	1 b3116	2.92	1.37	1	1.81	1.16	0
	0.09	1 b3126	4.1	0.69	1	1.84	0.8	1
	0.04	1 b2245	1.57	0.17	0	1.65	0.56	0
	0.04	1 b2496	0.82	0.09	0	1.18	0.32	1
	0.04	1 b0472	0.41	0.05	1	1.16	0.53	1
	0.07	1 b0459	1.19	0.19	1	1.6	0.43	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.03	1 b3870	0.36	0.03	1	0.34	0.35	1
	0.04	1 b0824	1.49	0.22	0	1.82	1.51	0
	0.04	1 b0728	0.88	0.24	1	0.2	0.42	1
	0.05	1 b3869	0.94	0.15	0	1.18	1.16	1
	0.05	1 b2309	0.43	0.08	1	0.88	0.69	1
	0.06	1 b0080	0.39	0.05	1	0.91	0.77	1
	0.06	1 b0684	0.86	0.12	1	0.81	2.31	1



0.04		1 b0724	0.45	0.06	1	0.32	0.39	1
0.05		1 b0181	0.58	0.08	1	0.94	0.68	1
0.08		1 b2607	0.56	0.1	1	0.23	0.19	1
0.04		1 b4172	0.6	0.11	1	0.5	0.31	1
0.07		1 b1210	0.77	0.16	1	1.17	0.68	1
0.06		1 b2500	0.39	0.09	1	1.1	0.28	1
0.03		1 b0827	0.56	0.12	1	0.79	0.64	1
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.07		1 b3916	0.99	0.12	1	0.92	0.45	1
0.04		1 b0654	0.54	0.07	1	1.27	0.38	0
0.11		1 b3279	1.21	0.16	1	1.31	0.76	1
0.07		0	1.7	0.31	0	1.87	0.51	0
0.08		0	1.66	2.82	0	1.83	0.93	0
0.07		1	1.6	0.35	0	2.03	1.05	0
0.13		1	0.92	0.08	0	1.15	0.54	0
0.06		0 b1915	1	0.4	0	1.26	0.21	0
0.12	n/a		1.69	0.43	0	1.24	0.73	0
0.09		1	0.88	0.31	0	0.89	1.57	1
0.06		1 b0011	1.35	0.68	0	1.29	0.73	0
0.05		1 b0003	1.2	0.14	1	1.46	0.85	0
0.06		0	1.19	0.2	0	1.55	0.87	0
0.24		0	1.5	0.26	0	1.81	0.95	0
0.15	n/a	b3147	0.34	0.04	1	0.42	0.86	1
0.1		1	0.89	0.24	0	1.31	0.6	0
n/a	n/a		n/a	n/a	0	n/a	n/a	0
0.09		1 b2148	0.8	0.15	0	1.29	0.21	0
0.05		1	0.99	0.27	0	1.86	0.66	0
0.05		1 b0150	1.31	0.15	0	1.31	0.72	0
0.15	n/a		1.62	0.43	0	2.34	0.81	0
0.04		1 b2285	0.47	0.06	1	0.24	0.41	1
0.14		1 b2833	1.17	0.38	0	1.89	0.29	0
0.1		1 b3848	0.72	0.08	1	0.95	1.28	1
0.09		1 b3824	1	0.91	0	1.79	0.71	0
0.08		1 b3802	0.91	0.07	1	0.73	1.21	1
0.16		1 b3984	0.31	0.08	1	0.2	0.16	1
0.08		1 b3787	0.57	0.08	1	1.25	0.68	1
0.06		1 b3972	1.35	0.29	1	0.93	2.89	1
0.11		1 b1941	1.12	0.19	0	1.43	0.46	0
0.08		1 b2415	0.79	0.09	1	0.59	0.59	1
0.07		1 b0064	1.25	0.19	1	1.69	1.82	0
0.11		1 b2779	0.47	0.05	1	0.18	0.39	1
0.07		1 b3924	2.03	0.84	1	1.42	0.74	1
0.06		1 b2024	1.31	0.43	0	1.7	1.21	0
0.08		1 b3792	0.73	0.13	0	1.1	0.32	0
0.13		1 b3996	0.89	0.09	1	1.38	0.47	1
0.06		1	0.46	0.08	1	0.65	0.23	1
0.03		1	1.98	0.42	1	1.22	0.67	1
0.1		1 b1197	0.83	0.11	0	1.6	1.23	1
0.05	n/a	b1423	1.45	0.4	0	1.82	0.42	0
0.07		1 b1340	1.23	0.17	0	1.36	0.77	1
0.04		1 b0860	0.88	0.14	0	0.97	0.51	1
0.06		1	1.01	0.34	0	1.83	0.4	0

	0.08	1 b0920	1.06	0.11	0	1.29	0.3	0
	0.09	1	1.32	1.14	0	1.61	0.79	0
	0.06	1 b0599	1.41	0.19	0	1.32	1.06	0
	0.07	1 b1269	0.85	3.67	1	1.01	0.59	1
	0.07 n/a		1.08	0.25	1	1.84	1.01	1
	0.08	1 b1808	0.57	0.26	1	1.02	0.36	1
	0.08	1 b1834	0.45	0.08	1	0.77	0.32	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	0 b1862	1.25	1.73	0	1.62	3.67	0
	0.06	1 b0468	1.07	0.3	0	1.4	0.28	0
	0.04	1 b0513	1.44	0.26	0	1.62	2.41	0
	0.06	1	0.44	0.1	1	0.49	0.42	1
	0.06	1	0.91	0.12	0	1.7	0.32	0
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.21 n/a		1.56	0.32	0	2.04	0.66	0
	0.1	1	3.1	1.43	1	1.3	4.49	1
	0.09	1 b3559	0.46	0.23	1	1.01	0.29	1
	0.09 n/a	b0739	0.68	0.09	1	0.77	0.86	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.09	1	1.09	0.14	1	1.3	0.62	0
	0.06	1 b2838	1.15	0.21	1	1.36	1.23	1
	0.1	1 b2937	0.53	0.06	1	1.12	0.95	1
n/a	n/a		n/a	n/a	0 n/a	n/a		0
	0.07	1 b2713	1.19	0.26	0	1.91	0.67	0
	0.07	1 b3550	0.92	0.1	1	1.15	0.36	0
	0.06	1	1.22	0.14	0	1.59	0.69	0
	0.09	1 b2824	1.21	0.2	0	1.91	0.38	0
	0.13	1	0.89	0.21	0	1.53	0.45	0
	0.08	1 b2966	1.36	0.32	0	1.95	0.59	0
	0.29	1 b2992	1.47	0.09	0	1.76	0.71	0
	0.12	1	1.16	0.11	0	2.03	0.49	0
	0.05	1 b2129	1.05	0.3	0	1.78	0.73	0
	0.07	1 b1806	0.82	0.21	1	1.6	0.6	0
	0.11	1 b3308	0.3	0.08	1	0.08	0.09	1
	0.06	1	1.31	0.23	0	1.52	0.99	1
	0.07	1 b3178	1.21	0.13	1	0.97	3.2	1
	0.1	1 b3064	0.57	0.14	0	1.53	0.67	0
	0.14	1	1.68	0.5	0	1.9	0.71	0
	0.12	1 b3192	0.9	0.09	1	0.89	0.75	1
	0.13	1	2.12	0.25	1	1.95	1.06	0
	0.06	1	0.74	0.16	1	1.29	0.6	1
	0.07	1 b0375	1.36	0.19	0	1.92	1.21	0
	0.18	0 b2099	0.99	0.14	0	1.63	1.94	0
	0.16	1 b2706	1.48	0.45	0	2.19	0.72	0
	0.04	1 b2114	0.21	0.06	1	0.3	0.24	1
	0.06	1 b2182	0.87	0.15	0	1.44	0.23	1
	0.07 n/a		1.55	0.45	0	1.69	1.55	0
	0.07	1 b2134	1.1	0.24	0	1.51	1.05	0
	0.1	1	0.66	0.11	1	1.32	0.37	0
	0.17	0	1.44	0.52	0	2.03	0.83	0
	0.07	1 b0722	0.35	0.07	1	0.27	0.76	1
	0.13 n/a		1.08	0.42	0	1.54	0.64	0



	0.05	n/a	b1917	0.97	0.12	1	2.14	0.78	0
	0.07	n/a		1.15	0.25	0	1.84	0.77	0
	0.04	n/a	b0161	0.4	0.06	1	0.4	0.81	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
	0.06	n/a	b0909	0.71	0.14	0	1.28	0.67	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			1.09	0.34	1	1.1	3.18	1
	0.08	1		0.96	0.19	1	1.11	0.75	1
	0.1	1		0.95	0.23	1	1.91	1.2	1
	0.07	1		0.98	0.17	0	0.98	0.65	1
	0.11	1		0.69	0.07	1	1.12	0.73	1
	0.06	1		1.23	0.23	0	1.42	0.38	0
	0.05	1		1.02	0.29	0	1.38	0.76	0
	0.08	1		1.76	0.19	1	1.13	2.06	1
	0.11	1		1.31	0.21	0	2.19	0.63	0
	0.1	n/a		1.18	0.18	1	1.25	0.46	0
	0.13	1		1.17	0.11	0	1.71	0.55	0
	0.07	1		0.99	0.11	0	1.31	0.5	0
	0.04	1		1.23	0.11	0	1.58	0.4	0
	0.08	0		1.13	0.67	0	1.4	3.61	0
	0.1	1		0.82	0.21	1	1.6	0.59	0
	0.09	1		1.21	0.21	1	1.46	0.28	0
	0.07	1		1.15	0.15	0	1.55	0.19	0
	0.06	1		1.26	0.29	1	1.62	0.62	1
	0.05	1		1.09	0.16	1	1.18	0.46	1
	0.08	1		1.24	0.39	0	1.62	0.5	0
	0.18	1		1.03	0.28	0	1.55	0.55	0
	0.08	n/a		1.02	0.12	0	1.97	0.62	0
	0.08	1		0.94	0.28	1	1.13	2.25	1
	0.1	1		1.16	0.43	0	1.84	0.97	0
	0.09	1		1.57	0.59	0	1.37	0.68	0
	0.08	1		0.96	0.27	0	1.23	0.77	1
	0.11	1		1.16	0.32	0	1.44	0.21	0
	0.04	1	b3546	0.85	0.12	1	1.31	0.73	1
	0.07	1		0.86	0.19	1	1.32	0.58	1
	0.09	1		1.02	0.31	0	1.46	0.15	0
	0.04	1		0.92	0.21	1	1.27	0.63	1
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
n/a	n/a			n/a	n/a	0	n/a	n/a	0
				1	0	1	1	0	1

MEDIAN\_F STD\_DEV THRESHO MEDIAN\_F STD\_DEV THRESHOLD

		1	1.22	3.11	0
3.19	1.82	0	1.37	0.4	0
0.74	0.24	0	1.09	0.39	0
		0	1.08	0.4	0
1.84	2.37	0	1.2	0.22	0
0.5	0.9	1	1.13	0.5	0
0.93	0.2	1	0.96	0.24	0
1.8	0.37	0	1.16	0.25	0
1.25	0.32	1	1.01	0.06	0
0.89	0.1	1	1.36	0.26	0
1.52	0.58	0	1.64	0.36	0
1.29	0.2	0	0.96	0.38	0
1.46	0.25	1	1.17	0.54	0
0.88	0.08	1	0.98	0.14	0
0.92	0.07	1	0.87	0.29	0
		0	0.78	0.33	0
2.33	1.3	1	1.41	0.72	0
1.18	0.13	1	0.87	0.09	0
1.07	0.37	0	1.49	0.24	0
1.56	2.07	0	1.32	0.75	0
1.46	0.39	0	1.08	0.52	0
1.57	0.38	0	1.28	0.5	0
1.52	0.17	0	1.29	0.28	0
		0	1.1	0.23	0
1.85	0.55	0	0.98	0.3	0
1.36	0.32	0	0.94	0.32	0
1.01	0.24	0	1.03	0.41	0
1.21	1.95	0	0.9	0.13	0
n/a	n/a	0	n/a	n/a	0
0.94	0.23	1	1.29	0.53	0
n/a	n/a	0	n/a	n/a	0
0.91	0.12	1	1.08	0.16	0
1.08	0.19	1	0.96	0.38	0
2.01	0.51	0	1.21	0.55	0
		1	0.98	0.22	0
0.98	0.29	0	0.92	0.25	0
1.71	0.48	0	1.32	0.3	0
2.84	0.85	0	1.06	0.39	0
		0	1.1	0.54	0
1.22	0.2	0	0.94	0.55	0
n/a	n/a	0	n/a	n/a	0

	1.69	1.08	0	1.11	0.32	0
	1.85	0.02	0	0.95	7.21	0
	1.38	0.44	0	0.92	0.1	0
	1.07	0.15	0	0.85	0.34	0
	1.88	1.4	0	1.05	0.3	0
n/a	n/a		0 n/a	n/a		0
			1	1.12	0.26	0
n/a	n/a		0 n/a	n/a		0
	1.25	0.28	0	0.98	0.27	0
n/a	n/a		0 n/a	n/a		0
	1.14	0.35	0	1.1	0.27	0
n/a	n/a		0 n/a	n/a		0
	1.15	3.18	0	0.8	0.21	0
	0.91	0.07	1	1.15	0.06	0
	1.38	0.91	0	1.49	0.53	0
	1.52	0.43	0	0.91	0.54	0
n/a	n/a		0 n/a	n/a		0
	0.72	0.22	1	0.91	0.45	0
	1.2	0.4	0	1.02	0.5	0
	1.69	0.1	0	1.06	0.2	0
	1.51	0.16	0	0.92	0.45	0
			0	0.94	0.22	0
	0.94	0.24	1	0.88	0.18	0
	1.08	1.56	0	1.06	0.28	0
	1.52	1.29	0	0.69	0.22	0
	1.76	0.39	1	1.45	0.25	0
	0.96	0.27	1	1.14	0.36	0
n/a	n/a		0 n/a	n/a		0
	1.98	2.02	0	0.89	0.34	0
	1.48	0.3	0	0.71	0.18	0
	1.3	0.46	0	0.91	0.14	0
	2.68	1.1	1	1.34	0.4	0
	2.76	0.93	0	1.29	0.34	0
	1.12	0.58	0	1.24	0.28	0
	0.66	0.17	1	1.26	0.2	0
	1.58	0.26	0	1.12	0.42	0
	0.71	0.88	1	1.04	0.3	0
	2.21	0.43	0	0.99	1.06	0
n/a	n/a		0 n/a	n/a		0
	1.37	0.07	0	1.23	0.29	0
	0.92	0.23	1	1.32	0.21	0
	1.17	0.12	0	1.08	0.27	0
	0.56	0.15	1	0.82	0.22	0
	0.63	0.07	1	0.9	0.24	0
	1.66	0.48	0	1.4	0.32	0
			1	1.11	0.29	0
			1	1.22	0.36	0
	1.35	0.07	0	0.94	0.15	0
	0.66	0.05	1	0.87	0.14	0
n/a	n/a		0 n/a	n/a		0
	1.93	0.19	0	1.27	0.26	0
	2.2	0.49	0	1.04	0.98	0

	1.83	0.39	0	1.08	4.29	0
	1.97	0.43	0	1.23	0.29	0
	1.09	0.21	0	0.87	0.41	0
	0.36	0.15	1	1.38	0.28	0
	1.88	1.14	0	0.63	0.39	0
	0.68	0.03	1	1.07	0.72	0
	0.64	0.24	1	0.88	0.31	0
	0.15	0.04	1	1.04	0.31	0
	0.72	0.14	1	0.97	0.14	0
			0	0.96	0.31	0
	1.35	0.34	0	1.21	0.31	0
	0.85	0.19	1	1.13	0.27	0
	1.1	0.08	1	0.95	0.33	0
n/a	n/a		0 n/a	n/a		0
	1.59	0.31	0	1	0.15	0
	2.34	0.82	0	1.29	0.55	0
	2.15	0.78	0	1.06	0.48	0
	1.56	0.32	0	1.13	0.2	0
	1.83	0.49	0	1.02	0.42	0
	1.59	0.22	0	1.21	0.16	0
	1.58	0.47	0	0.91	0.41	0
	2.21	0.31	0	0.91	0.21	0
	1.58	0.27	0	1.21	0.38	0
	1.76	0.14	0	1.13	0.42	0
	1.84	0.21	0	1.2	0.32	0
	1.23	0.52	0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	24.98	5.67	1	1.75	1.16	0
	1.75	0.07	0	1.14	0.25	0
	1.09	0.36	1	1.04	0.29	0
	1.64	0.36	0	0.97	0.19	0
			0	1.14	0.47	0
	1.19	0.3	1	1.21	0.37	0
	2.26	1.16	0	1.19	0.56	0
	1.37	0.33	0	1.22	0.49	0
			0	1.12	0.46	0
	0.72	0.12	1	0.99	0.41	0
	0.59	0.12	1	0.99	0.2	0
	1.3	0.53	0	1.27	0.27	0
	2.33	0.4	0	0.83	0.14	0
	1.56	0.8	0	1.18	0.2	0
	1.34	0.23	0	1.27	0.2	0
	1.56	0.34	0	0.99	0.43	0
	1.1	0.27	0	0.99	1.77	0
	2.07	0.07	0	0.97	0.19	0
	1.37	0.29	1	1.06	0.24	0
	2.16	0.47	0	0.88	0.2	0
	1.78	0.32	0	0.89	0.08	0
	1.64	0.54	1	1.48	0.36	0
	1.3	0.16	0	0.96	0.15	0
			0	0.96	0.26	0
	1.54	0.28	0	1.21	0.56	0

1.27	0.86	0	0.94	0.41	0
0.85	0.23	0	1.15	0.3	0
1.47	0.21	0	1.02	0.34	0
0.98	0.27	0	1	0.37	0
1.42	0.13	0	1.07	0.22	0
1.52	0.24	0	1.31	0.37	0
		0	0.98	0.29	0
1.54	0.12	0	0.92	0.31	0
0.92	0.12	1	1.59	0.38	0
1.43	0.26	0	1.1	0.41	0
1.22	0.3	0	1.09	0.28	0
1.75	0.18	0	0.91	0.17	0
1.27	0.32	1	0.94	0.23	0
1.6	0.25	0	1.03	0.16	0
1.46	0.21	0	1	0.18	0
1.4	0.13	0	1.32	0.55	0
1.35	7.45	0	0.98	0.13	0
0.48	0.06	1	1.18	0.24	0
0.38	0.1	1	1.54	0.35	0
1.96	0.28	0	1.11	0.38	0
0.79	0.11	1	1.18	0.33	0
1.2	0.35	0	1	0.29	0
1.54	1.09	0	1.29	0.34	0
1.39	0.18	0	1.02	0.28	0
0.65	0.29	1	1.29	0.47	0
1.11	4.21	0	1.1	0.16	0
0.65	0.17	1	1.5	0.56	0
1.63	0.32	1	1.73	0.64	0
n/a	n/a	0	n/a	n/a	0
2.03	0.32	0	1.22	0.25	0
		0	1.12	0.29	0
1.47	0.35	0	1	0.1	0
1.61	0.63	0	1.04	0.17	0
1.03	0.11	1	0.79	0.25	0
1.53	0.33	0	0.77	0.11	0
2.14	0.42	0	1.21	0.37	0
1.23	0.33	0	1.45	0.2	0
1.57	0.08	0	1.1	0.58	0
		1	1.04	0.36	0
1.84	0.52	0	1	0.3	0
1.62	0.27	0	1.29	0.29	0
0.96	0.18	0	2.15	1.15	0
0.89	0.7	1	1.05	0.26	0
1.13	0.1	1	1.04	0.33	0
1.12	0.14	0	0.88	0.21	0
0.91	0.16	1	0.98	0.29	0
1.88	0.14	0	0.87	0.28	0
1.9	0.37	0	0.95	0.14	0
		1	1.46	0.75	1
2.05	0.32	0	1.29	0.29	0
1.63	0.5	0	0.9	0.16	0
n/a	n/a	0	n/a	n/a	0



	1.84	0.32	0	1.08	0.25	0
	1.2	0.49	0	1.08	0.4	0
	1.23	1.14	0	1.13	0.31	0
	1.71	0.49	0	1.04	0.18	0
	1.09	0.08	0	1.37	0.23	0
	1.15	2.88	0	0.99	0.43	0
	0.86	0.24	1	1.23	0.69	1
	1.01	1.44	0	1.09	0.27	0
	1.48	0.2	1	2.52	0.42	0
	0.86	0.13	0	0.81	0.1	0
	1.01	0.29	0	0.97	0.19	0
	1.44	0.29	0	0.88	0.52	0
	1.83	0.2	0	0.83	0.61	0
	1.78	0.17	0	1.15	0.3	0
	0.6	0.62	1	1.03	0.1	0
	1.7	0.53	0	1	0.47	0
	1.47	0.11	0	0.78	0.2	0
	1.77	0.1	0	1.18	0.35	0
	1.55	0.32	0	0.97	0.27	0
	1.87	0.65	0	1.08	0.78	0
n/a	n/a		0 n/a	n/a		0
	1.45	0.02	0	1.11	0.26	0
	1.11	0.14	1	1.06	0.24	0
	1.16	0.14	1	1.04	0.22	0
	2.19	0.55	0	1.07	0.27	0
	1.05	0.46	0	1.12	0.26	0
	0.96	0.32	1	1.67	0.38	0
	2.08	0.35	0	1.06	0.24	0
	2	0.29	0	0.95	0.2	0
	2.06	0.45	0	0.88	0.47	0
	1.56	0.28	0	1	0.3	0
	1.21	0.12	1	1.21	0.14	0
	1.02	0.15	1	0.93	0.31	0
	1.59	0.7	0	0.98	0.76	0
n/a	n/a		0 n/a	n/a		0
	1.02	0.9	0	0.92	0.26	0
	0.8	0.24	0	0.94	0.23	0
	2.02	0.21	1	2.66	1.56	1
	1.1	0.92	0	0.95	0.17	0
	1.24	0.12	0	0.98	0.4	0
	1.69	0.36	0	1.08	0.42	0
	1.24	0.06	0	1.09	0.3	0
	1.42	0.17	0	1.12	0.37	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.2	0.23	0	1.08	0.35	0
	1.1	0.37	0	1.35	0.23	0
n/a	n/a		0 n/a	n/a		0
	1.82	0.85	0	0.93	0.17	0
	1.47	0.23	0	1.15	0.25	0
	1.49	0.26	0	1.03	0.12	0

	0.72	0.06	1	2.43	1.09	1
	1.18	0.2	1	1.61	0.32	0
	1.16	0.37	0	0.85	0.16	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	2.02	0.53	0	1.29	0.59	0
	1.6	0.44	0	1.33	0.53	0
	1.35	0.3	0	1.15	0.11	0
	1.3	0.3	1	1.19	0.37	0
	1.41	0.07	0	1.04	8.02	0
	0.49	0.07	1	1.55	0.38	0
	1.86	0.23	0	0.91	0.34	0
	2.64	0.4	1	1.99	0.47	0
	1.47	0.25	0	1.11	0.28	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.49	0.18	0	0.93	0.22	0
	10.99	6.31	0 n/a	n/a		0
	1.9	0.32	0	0.85	0.07	0
n/a	n/a		0 n/a	n/a		0
	1.82	0.19	0	0.82	0.29	0
	7.87	1.29	1	1.35	0.29	0
	1.78	0.89	0	1.07	0.24	0
	1.36	0.8	0	1.17	0.6	0
	1.08	0.18	0	1.29	0.45	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.1	0.18	1	1.04	0.07	0
	0.92	0.38	1	0.96	0.5	0
	1.34	0.42	0	1.01	0.15	0
	1	0.33	1	1.01	0.15	0
	1.24	0.36	0	1.03	0.15	0
			1	1.38	0.78	1
	2.01	0.32	1	1.04	0.2	0
	1.82	0.04	0	1.09	0.17	0
	0.98	0.35	0	2.41	0.56	0
	1.41	0.37	0	1.09	0.48	0
	1.06	0.17	0	1.26	0.22	0
	1.25	0.3	0	1.02	0.26	0
	0.82	0.13	1	1.93	0.3	0
	5.55	0.7	1	8	5.3	1
	1.33	0.17	0	0.81	0.12	0
	1.23	0.19	0	0.94	0.14	0
	1.36	0.39	0	0.95	0.27	0
	1.4	0.21	0	0.96	0.19	0

1.45	0.47	0	1.45	0.29	0
1.15	0.14	0	0.94	0.18	0
1.21	0.28	0	1	0.24	0
1.52	0.19	0	0.89	0.11	0
2.12	0.78	0	0.85	0.29	0
1.24	1.09	0	1.09	0.31	0
1.16	0.88	0	1.02	0.59	0
1.08	0.26	0	1.02	0.43	0
1.72	0.33	0	1.14	0.37	0
1.28	0.12	0	1.15	0.92	0
1.67	0.35	0	1.14	0.54	0
1.26	0.13	0	0.85	0.14	0
1.25	0.07	0	1.04	1.47	0
0.96	0.3	0	0.93	0.11	0
1.6	0.08	0	1.01	0.18	0
0.7	0.09	1	0.86	0.16	0
1.56	0.1	0	1.09	0.08	0
1.28	0.28	0	0.87	0.48	0
1.3	0.15	0	0.97	0.21	0
0.44	0.03	1	0.52	0.3	1
1.21	0.1	1	1.28	0.65	0
1.18	0.27	0	1.02	1.5	0
1.66	0.03	0	0.87	0.24	0
1.26	0.34	1	1.06	0.52	0
1.55	0.15	0	0.95	0.17	0
0.86	0.09	1	1.07	0.41	0
1.44	0.36	0	1.02	0.4	0
1.58	0.56	0	1.07	0.5	0
1.94	0.48	0	0.89	0.19	0
0.55	0.15	1	0.93	0.51	0
1.69	0.25	0	0.81	0.36	0
n/a	n/a	0	n/a	n/a	0
1.12	0.35	0	1.39	0.39	0
1.54	0.08	1	0.96	0.32	0
1.96	0.42	0	1	0.27	0
1.38	0.12	0	0.96	0.14	0
n/a	n/a	0	n/a	n/a	0
0.7	0.06	1	1.12	0.24	0
1.23	0.31	0	1.12	0.22	0
1.86	0.15	0	0.92	0.46	0
1.77	0.23	0	0.83	0.16	0
1.89	0.71	0	0.74	0.23	0
1.14	0.07	1	1.29	0.39	0
		0	1.16	0.37	0
0.9	0.54	0	0.85	0.08	0
1.62	6	0	0.88	0.15	0
1.32	0.21	0	1.02	0.24	0
1.74	0.32	0	1.05	0.28	0
1.38	0.06	0	0.95	0.12	0
1.65	0.24	0	1.09	0.5	0
1.3	0.22	0	1.19	0.17	0
1.68	0.98	0	0.88	0.28	0

	1.55	0.28	0	1.02	0.57	0
	1.69	0.41	0	1.05	0.48	0
	1.27	0.27	0	1.05	0.23	0
	1.68	0.39	0	1.11	0.29	0
	1.53	0.25	0	1.01	0.13	0
	1.52	0.13	0	1.27	0.22	0
n/a	n/a		0 n/a	n/a		0
	0.18	0.03	1	1.09	0.32	1
	1.87	0.27	0	0.75	0.25	0
	1.38	0.22	0	1.09	0.27	0
	1.79	0.15	0	0.97	0.26	0
	1.59	0.07	0	1.05	0.28	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.72	0.45	0	1.06	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.29	0.2	0	0.87	0.54	0
	1.74	0.34	0	1.19	0.3	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.25	0.3	0	1.13	0.25	0
	1.17	0.21	0	1.2	0.19	0
	1.43	0.11	0	1.16	0.32	0
n/a	n/a		0 n/a	n/a		0
	1.65	0.36	0	0.87	0.19	0
			0	0.78	0.18	0
n/a	n/a		0 n/a	n/a		0
	1.05	0.32	0	0.77	0.31	0
	0.94	0.17	1	1.12	0.34	0
	1.01	0.09	1	1.02	0.18	0
	1.01	0.44	1	0.91	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.78	0.24	0	1.04	0.16	0
	0.63	0.07	1	1.03	0.36	0
	1.4	0.77	0	0.93	0.24	0
	1.83	0.11	0	1.11	0.58	0
			1	1.13	0.49	0
	1.55	0.25	0	1.05	0.32	0
	1.53	0.22	1	1	0.1	0
	1.62	0.62	0	0.98	0.12	0
	1.93	0.22	1	0.9	0.44	0
	2.34	0.38	0	0.98	0.17	0
	1.82	1.44	0	0.91	0.14	0
	0.83	0.13	1	0.93	0.85	0
	1.62	0.17	0	0.73	3.02	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	2.13	0.41	0	1.12	0.13	0
	1.67	0.35	0	1.01	0.65	0
n/a	n/a		0 n/a	n/a		0
	1.3	1.33	0	0.92	0.14	0

	1.12	0.35	0	1.11	0.45	0
	0.9	0.29	0	0.91	0.29	0
	1.54	0.26	0	0.89	0.38	0
	1.53	0.05	0	1.06	0.37	0
	1.82	0.26	0	0.97	4.63	0
			0	0.95	0.43	0
	1.08	0.11	0	0.98	0.81	0
	0.69	0.05	1	0.92	1.28	0
n/a	n/a		0 n/a	n/a		0
	1.48	0.23	0	1.16	0.36	0
	1.12	0.24	1	0.93	0.21	0
	1.71	0.31	0	0.84	0.47	0
	1.47	0.12	1	0.98	0.31	0
	1.82	0.1	1	1	0.34	0
	0.17	0.07	1	1.28	0.53	1
	2.11	0.29	0	1.22	0.3	0
	0.67	0.2	1	0.92	0.36	0
			0	1.03	0.33	0
	2.33	0.27	1	1.15	0.66	0
n/a	n/a		0 n/a	n/a		0
	0.71	0.21	1	1.07	0.18	0
	1.98	0.25	0	0.88	0.15	0
	1.79	0.48	0	1.04	0.1	0
	1.14	0.41	0	1.09	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.6	0.09	0	0.94	0.27	0
	1.08	0.26	1	0.97	2.28	0
	1.56	0.18	0	1.14	0.31	0
n/a	n/a		0 n/a	n/a		0
	1.73	0.31	0	1.06	0.21	0
	2.14	0.08	1	0.98	0.37	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.45	0.41	0	1.14	0.37	0
n/a	n/a		0 n/a	n/a		0
	2.76	0.86	0	0.88	0.18	0
	1.53	0.72	0	0.96	0.26	0
	1.43	0.32	1	1.17	0.17	0
	1.85	0.26	0	0.91	0.22	0
	1.38	0.36	0	0.87	0.24	0
	0.35	0.14	1	0.75	0.13	0
	1.56	0.21	1	1.29	0.33	0
			1	4.57	1.7	1
	1.46	0.1	0	0.94	0.31	0
	1.69	0.38	0	1.02	0.32	0
	1.32	0.21	0	0.88	0.45	0
			0	0.97	0.38	0
	1.96	0.23	1	1.06	0.33	0
	1.05	0.32	0	0.79	0.28	0
	0.75	0.11	1	0.93	0.24	0
	1.32	0.2	0	1.03	0.57	0
	1.4	0.41	0	0.84	0.18	0

1.99	0.73	0	0.99	0.59	0
1.89	0.32	0	0.8	0.31	0
0.58	0.07	1	1.11	0.21	0
1.28	0.23	1	0.98	0.26	0
1.66	9.51	0	0.76	0.19	0
1.7	0.27	0	0.92	0.18	0
1.27	0.63	0	0.94	0.18	0
1.41	0.33	0	0.88	0.22	0
1.27	0.06	1	1.06	0.19	0
0.13	0.03	1	0.86	0.24	1
0.13	0.04	1	0.83	0.18	1
1.54	0.46	0	0.92	0.13	0
1.42	0.1	1	1.07	0.37	0
1.67	0.28	1	1.53	0.93	0
1.49	0.18	1	1.01	0.44	0
1.03	0	1	1.25	0.63	0
0.83	0.18	1	1.23	0.2	0
0.1	0.03	1	0.99	0.27	1
0.65	0.07	1	1.26	0.35	0
0.85	0.12	1	1.46	0.63	0
0.37	0.14	1	1.17	0.28	0
0.93	0.49	1	0.99	0.25	0
0.3	0.05	1	0.97	0.31	0
1.38	0.33	0	0.87	0.03	0
		1	1.35	0.43	0
0.88	0.1	1	0.98	0.17	0
0.35	0.18	1	0.9	0.26	1
0.84	0.06	1	1.01	0.24	0
1.66	0.08	0	0.94	0.08	0
1.53	0.2	0	0.88	0.44	0
1.15	0.39	0	1.14	0.53	0
0.48	0.01	1	1.12	0.24	0
0.81	0.1	1	1.16	0.22	0
1.62	0.06	0	0.95	0.37	0
0.95	0.32	1	0.96	0.44	0
1.16	0.33	0	1.08	0.34	0
		0	0.75	0.24	0
1.53	0.25	0	1.21	0.42	0
1.63	0.37	0	1.02	0.32	0
1.22	0.27	0	0.91	0.34	0
		0	0.93	0.19	0
n/a	n/a	0	n/a	n/a	0
1.32	0.15	0	0.93	0.1	0
0.65	0.08	1	0.75	0.28	0
n/a	n/a	0	n/a	n/a	0
2.09	0.43	0	0.84	0.12	0
1.12	0.15	1	0.79	0.21	0
1.73	0.19	0	1.13	0.32	0
1.5	0.15	0	1.14	0.38	0
1.49	0.28	1	1.75	0.71	0
1.33	0.16	1	1.26	0.39	0
0.87	0.13	1	1.09	0.23	0

	1.39	0.28	1	0.88	0.19	0
	2.32	0.1	1	1.16	0.17	0
	1.35	0.21	0	0.97	0.32	0
	1.65	0.42	0	0.83	0.28	0
	1.42	0.11	0	0.79	1.04	0
n/a	n/a		0 n/a	n/a		0
	1.64	0.25	0	0.85	0.73	0
			0	0.96	0.14	0
	0.85	0.07	1	1.19	0.51	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.99	0.25	0	1.03	0.17	0
	1.62	0.38	0	1.06	0.39	0
	1.25	0.15	0	0.82	0.31	0
	1.09	0.05	1	1.23	0.27	0
	1.58	0.37	1	1.08	0.29	0
	2.37	0.45	1	1.92	0.34	0
	0.27	0.03	1	1.07	0.15	0
	0.32	0.05	1	1.11	0.16	0
	1.02	0.03	1	1.52	0.5	0
	0.5	0.05	1	0.99	1.7	0
			0	1.16	0.37	0
	0.55	0.03	1	0.87	0.32	0
	1.39	0.35	0	0.93	0.21	0
	1.17	0.26	0	0.99	0.51	0
	1.93	0.19	0	1.04	0.39	0
	1.2	0.62	0	0.82	0.21	0
	1.67	0.5	0	1.06	0.21	0
	1.4	0.13	0	1	0.35	0
n/a	n/a		0 n/a	n/a		0
	1.03	0.28	0	0.95	0.23	0
	0.68	0.06	1	1.04	0.34	0
	2.16	0.2	0	0.77	0.16	0
	1.3	0.43	0	0.86	0.19	0
	1.65	0.4	0	0.91	0.2	0
	0.09	0.04	1	0.98	0.45	1
	1.41	0.14	1	0.9	0.17	0
	0.08	0.01	1	0.96	0.28	1
	1.59	0.33	1	1.41	0.27	0
	1.43	0.29	1	1.07	0.24	0
	1.87	0.43	0	0.95	0.14	0
	1.48	0.11	1	1.02	0.14	0
	2.11	0.56	0	1.09	0.18	0
	0.81	0.46	0	0.82	0.22	0
	1.48	0.25	0	1.02	0.15	0
	1.15	0.28	1	0.98	0.12	0
	1.27	0.18	0	1.08	0.26	0
	0.84	0.32	1	0.91	0.36	0
	0.56	0.06	1	0.96	0.33	0
	0.44	0.07	1	0.89	0.22	0
	1.7	0.47	0	0.82	0.06	0
	0.32	0.04	1	0.96	0.39	1

	1.16	0.38	0	1.34	0.34	0
	1.37	0.25	0	0.97	0.28	0
	1.96	0.21	0	0.97	0.18	0
	1.48	0.11	0	0.81	0.25	0
	1.06	0.46	0	0.88	0.26	0
	1.55	0.24	0	0.88	0.28	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	2.05	0.3	1	1.48	0.49	0
	2.11	0.25	0	0.78	0.28	0
n/a	n/a		0	n/a	n/a	0
	1.42	0.16	0	0.88	0.36	0
n/a	n/a		0	n/a	n/a	0
	1.74	0.17	1	1.23	0.18	0
			0	0.93	0.26	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.87	0.09	0	2.6	0.99	0
	0.35	0.04	1	1.95	0.48	1
	1.4	0.22	1	1.28	0.3	0
	1.37	0.42	0	1.04	0.29	0
	1.64	0.15	0	1.01	0.17	0
	1.39	0.27	0	0.87	0.22	0
	2.06	0.41	1	1.04	0.28	0
	1.66	0.34	0	0.92	0.2	0
	1.73	0.34	0	0.97	0.26	0
	1.65	0.19	1	1.31	0.27	0
	1.32	0.15	1	1.37	0.4	0
	1.57	0.33	0	0.75	0.25	0
	1.68	0.43	0	0.85	0.35	0
n/a	n/a		0	n/a	n/a	0
	0.85	0.04	1	1.09	0.26	0
	0.49	0.07	1	0.94	0.17	0
	1.44	0.23	0	0.99	0.34	0
	0.88	0.1	1	0.92	0.29	0
	1.41	0.03	1	1.09	0.2	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.94	0.37	0	1.02	0.22	0
	1.69	0.11	0	1.09	0.31	0
	1.94	0.3	0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	0.47	0.06	1	0.98	0.25	0
	1.39	0.09	1	1.06	0.19	0
	1.51	0.37	0	0.79	0.24	0
	1.73	0.17	0	1.36	0.4	0
			1	1.02	0.23	0
	1.17	0.17	1	0.92	0.22	0



1.43	0.03	0	0.93	0.15	0
1.61	0.68	0	0.93	0.24	0
1.69	0.84	0	0.81	0.34	0
2.11	0.12	0	0.92	0.23	0
1.68	0.4	0	0.77	0.26	0
1.3	0.11	0	1.05	0.23	0
1.33	0.72	0	0.9	0.38	0
1.19	0.15	0	0.97	0.17	0
1.58	0.31	0	0.95	0.21	0
1.57	0.15	0	0.93	0.27	0
1.96	0.31	0	1.1	0.23	0
1.34	0.42	0	0.93	0.27	0
1.24	0.3	0	1.01	0.18	0
2.65	0.81	0	0.94	0.23	0
1.81	0.34	0	0.9	0.17	0
1.93	0.51	0	1.04	0.47	0
1.49	0.18	0	0.91	0.26	0
1.59	0.27	0	1.02	0.25	0
1.91	0.92	0	1.03	0.17	0
1.27	0.27	0	1.06	0.26	0
1.08	0.25	0	1.21	0.26	0
2.22	0.58	0	0.89	1.63	0
0.91	0.16	1	1.03	0.27	0
1.88	19.82	0	1.04	0.16	0
1.65	0.09	1	1.13	0.21	0
0.39	0.09	1	0.81	0.44	1
1.1	0.38	0	0.92	0.32	0
1.72	0.53	0	0.86	0.25	0
1.6	0.22	0	0.91	0.17	0
2.14	0.5	0	0.86	0.32	0
1.33	0.34	1	0.9	0.14	0
1.25	0.14	1	1.09	0.15	0
1.6	0.23	0	0.9	0.27	0
0.99	0.03	0	1.1	0.24	0
1.15	0.26	0	0.84	0.41	0
0.41	0.08	1	1.2	0.59	0
1.59	0.19	0	0.87	0.27	0
		0	0.9	0.33	0
1.35	0.28	0	0.98	0.32	0
1.13	0.04	0	0.93	0.14	0
0.27	0.04	1	0.84	0.52	0
1.99	0.53	0	1.01	0.3	0
n/a	n/a	0	n/a	n/a	0
1.99	0.45	0	1.12	0.32	0
1.49	0.27	1	1.05	0.39	0
1.5	0.23	0	1.06	0.46	0
n/a	n/a	0	n/a	n/a	0
0.67	0.23	1	1.19	0.36	0
1.37	0.28	0	1.04	0.34	0
0.72	0.09	1	0.82	0.33	0
		0	0.98	0.28	0
1.13	0.38	0	0.82	0.38	0

	1.8	0.23	0	1.26	0.98	0
	1.47	0.18	1	1.19	0.37	0
	2.37	1.2	0	1.05	0.3	0
	1.08	0.33	0	0.74	0.1	0
	1.45	0.99	0	1.12	0.34	0
	1.85	0.2	1	0.97	0.17	0
	1.28	5.16	0	0.93	0.11	0
	1.66	0.18	0 n/a	n/a		0
	1.4	0.17	0	1.08	0.34	0
	1.32	0.35	1	1.04	0.29	0
n/a	n/a		0 n/a	n/a		0
	2.05	0.17	0	0.89	0.22	0
	1.48	0.04	1	1.2	0.19	0
	1.83	0.14	0	0.94	0.19	0
n/a	n/a		0 n/a	n/a		0
	1.46	0.44	0	1.04	0.49	0
	1.28	0.05	0	0.97	0.31	0
	0.77	0.14	0	1.03	0.34	0
n/a	n/a		0 n/a	n/a		0
	1.39	0.19	1	2.14	0.93	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.95	0.36	0	1.15	0.17	0
	1.53	0.25	0	1.01	0.25	0
	0.91	0.08	0	1.17	0.5	0
	1.49	0.04	0	1.18	0.26	0
n/a	n/a		0 n/a	n/a		0
	1.97	0.1	0	0.88	0.52	0
n/a	n/a		0 n/a	n/a		0
	1.46	0.25	1	0.94	0.23	0
	1.31	0.22	0	0.95	0.21	0
	1.16	0.09	0	0.82	0.16	0
	0.84	0.18	1	0.93	0.78	0
n/a	n/a		0 n/a	n/a		0
	0.82	0.09	1	1.14	0.38	0
n/a	n/a		0 n/a	n/a		0
	0.77	0.1	1	0.9	0.77	0
	1.58	0.61	0	0.95	4.34	0
n/a	n/a		0 n/a	n/a		0
	1.64	0.29	0	0.98	0.13	0
	1.53	0.25	0	1.02	0.39	0
	1.43	1.43	0	1.21	0.37	0
	1.09	0.06	0	1.1	0.28	0
	1.57	0.39	1	0.95	0.16	0
	0.54	0.17	1	0.86	0.15	0
	2.14	0.62	0	1	0.45	0
	1.49	0.11	0	1.11	0.26	0
	1.46	0.29	0	0.96	0.21	0
	0.07	0.02	1	0.81	0.09	1
	1.32	0.06	0	0.93	0.17	0

	1.74	0.09	0	1.03	0.41	0
	1.34	0.41	0	0.85	0.17	0
	0.58	0.13	1	0.87	0.11	0
	2.01	0.27	0	0.87	0.27	0
	1.51	0.16	0	0.91	0.36	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
			0	0.86	0.41	0
	1.86	0.37	0	1.11	0.31	0
	1.57	0.09	0	0.94	0.46	0
n/a	n/a		0	n/a	n/a	0
	1.38	0.4	0	0.94	0.23	0
	0.2	0.01	1	0.86	0.2	1
	1.44	0.05	1	0.82	0.15	0
	1.67	0.37	1	1.45	0.48	0
	1.34	0.75	0	1.04	0.27	0
	0.97	0.22	1	0.97	0.34	0
			1	0.89	0.17	1
	0.67	0.12	1	0.78	0.24	0
			1	1	0.17	0
n/a	n/a		0	n/a	n/a	0
	0.71	0.1	1	1.01	0.24	0
	1.8	0.21	0	1.06	0.32	0
	1.3	0.24	0	0.98	0.46	0
	0.93	0.01	1	1.55	0.51	0
	1.21	0.35	1	0.73	0.49	0
	1.61	0.18	0	0.81	0.23	0
	0.68	0.09	1	1.23	0.48	0
	0.67	0.1	1	1.09	0.32	0
			1	1.16	0.39	0
	0.98	0	0	1.33	0.6	0
	12.78	4.38	1	1.99	1.32	0
	1.47	0.28	0	1.05	0.26	0
	1.53	0.29	0	0.95	0.17	0
	1.2	0.07	0	0.74	0.25	0
	1.61	0.22	0	0.88	0.16	0
	1.67	0.27	0	0.98	0.34	0
	1.88	0.28	0	0.8	0.15	0
	1.63	0.44	0	0.82	0.11	0
	2.27	0.75	0	1	0.35	0
	1.82	0.7	0	1.02	0.41	0
	1.92	0.35	1	1	0.28	0
	1.54	0.26	0	1.16	0.41	0
	0.69	0.16	1	1.03	0.37	0
			1	0.99	0.31	0
n/a	n/a		0	n/a	n/a	0
	1.6	0.18	0	1.22	2.73	0
	0.63	0.04	1	1.3	0.47	0
	1.03	0.32	0	0.88	0.32	0
	1.76	0.37	0	0.95	0.56	0
	0.41	0.14	1	0.86	0.32	0
	0.44	0.16	1	1	0.37	0

1.37	0.14	0	1.06	0.32	0
1.62	0.41	0	1.01	0.43	0
1.58	0.36	0	0.88	0.39	0
0.31	0.06	1	0.79	0.1	1
1.11	0.18	0	1.12	0.35	0
1.63	0.19	0	1.17	0.25	0
1.01	0.16	1	0.94	0.47	0
1.81	0.29	0	0.87	0.19	0
1.02	0.15	1	1.08	0.28	0
3.72	0.71	1	1.09	0.22	0
1.24	0.24	0	0.96	0.26	0
2.23	0.43	1	1.35	0.39	0
1.68	0.61	0	1.09	0.15	0
1.59	0.29	0	0.79	0.28	0
0.99	0.07	0	1.03	0.32	0
1.88	0.19	0	1.02	0.34	0
1.07	0.16	1	0.91	0.32	0
1.39	0.19	1	0.94	0.19	0
1.03	0.22	1	0.99	0.24	0
2.01	0.36	0	1.12	0.32	0
1.88	0.22	0	1.03	0.44	0
1.78	1.18	0	0.75	0.26	0
1.73	0.27	0	0.99	0.23	0
1.72	0.37	0	0.94	0.27	0
1.3	0.25	0	0.89	0.28	0
1.64	0.5	0	0.88	0.15	0
0.73	0.11	1	1.04	0.12	0
1.72	0.73	0	0.82	0.38	0
1.96	0.09	0	1.01	0.32	0
1.32	0.61	0 n/a	n/a		0
1.02	0.22	1	1.07	0.21	0
0.99	0.11	1	0.84	0.24	0
1.08	0.18	0	1.23	0.26	0
1.42	0.18	0	0.87	0.39	0
0.76	0.13	1	0.78	0.17	0
1.45	0.17	0	1	0.21	0
1.62	0.17	0	0.85	0.38	0
1.97	0.27	0	0.82	0.17	0
2.89	0.37	1	1.13	0.55	0
1.53	0.25	0	1.02	0.21	0
1.58	0.39	0	0.84	0.22	0
1.06	0.14	1	1.37	0.2	0
1.79	0.3	0	1.44	0.69	0
1.06	0.42	0	0.82	0.45	0
1.14	0.08	1	0.98	0.47	0
0.64	0.12	1	1.14	0.28	0
0.92	0.1	1	0.87	0.47	0
1.71	0.31	0	0.97	0.25	0
1.34	0.12	0	1	0.21	0
0.24	0.08	1	0.97	0.31	0
1.79	0.38	1	0.89	0.28	0
n/a	n/a	0 n/a	n/a		0

	1.35	0.18	0	1.39	1.05	0
	1.89	0.31	0	0.84	0.22	0
	2.12	0.51	0	1.1	0.51	0
	1.48	0.4	0	1.01	0.26	0
	1.37	0.22	1	9.12	2.54	1
n/a	n/a		0 n/a	n/a		0
	1.04	0.16	1	0.78	0.23	0
	1.62	0.05	0 n/a	n/a		0
	1.27	0.55	0	0.95	0.16	0
	1.24	0.23	0	1.25	0.29	0
	1.87	0.3	0	1.02	0.27	0
			1	0.9	0.12	0
			0	1.09	0.5	0
			0	0.9	0.16	0
	0.79	0.07	1	0.71	0.29	0
	1.54	0.89	0	0.79	0.25	0
	1.82	0.44	0	1.28	0.36	0
			0	1.12	0.18	0
	1.23	0.1	0	0.97	0.17	0
	1.75	0.37	1	1.31	0.37	0
	1.37	0.15	0	1.02	0.57	0
	1.73	0.59	0	0.95	0.65	0
	1.32	0.28	0	1.08	0.4	0
	0.11	0.04	1	1.11	0.26	1
	1.55	0.41	1	1.04	0.6	0
	1.18	0.36	0	0.85	0.29	0
	1.65	0.07	0	1.07	0.23	0
	1.62	0.16	0	0.94	0.21	0
	0.93	0.32	0	0.98	0.17	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
			0	0.77	0.66	0
	1.04	0.32	0	0.88	0.57	0
	1.2	0.16	0	1.4	0.59	0
	0.78	0.32	1	0.87	0.2	0
	1.43	0.22	0	0.98	0.25	0
	1.16	0.1	0	0.84	0.44	0
	1	0.23	0	1.17	0.37	0
	0.87	0.37	1	1	0.3	0
	1.32	0.95	0	0.93	0.22	0
	0.74	0.03	1	0.88	0.2	0
			1	1.04	0.25	0
			0	1.05	0.31	0
	1.29	0.29	0	0.96	0.25	0
	1.55	0.19	1	1.14	0.39	0
	0.68	0.11	1	1.49	0.4	1
	0.22	0.05	1	0.89	0.14	1
	1.22	0.33	1	1.18	0.36	1
	1.08	0.16	1	1.35	0.24	0
	1.33	0.13	1	0.94	0.28	0
	2.32	0.39	0	1.03	0.19	0
			1	1.02	0.19	0

	1.37	0.11	1	1.43	0.32	0
	1.42	0.14	1	1.03	0.06	0
	1.16	0.21	0	0.92	0.35	0
	2.02	0.44	0	1.12	0.28	0
	2.36	0.65	0	1.11	0.28	0
	0.43	0.11	1	0.78	0.05	1
	1.67	0.21	0	0.8	0.36	0
n/a	n/a		0 n/a	n/a		0
	1.82	0.45	1	0.77	0.24	0
	1.65	0.39	0	0.92	0.19	0
n/a	n/a		0 n/a	n/a		0
	1.51	0.24	0	0.89	0.21	0
	2.03	0.32	0	1.19	0.16	0
	0.58	0.05	1	0.87	0.2	0
	1.61	0.15	0	1.03	0.26	0
	0.45	0.14	1	1.45	0.24	1
	1.4	0.11	0	1.01	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.52	0.11	0	0.99	0.14	0
	0.76	0.17	1	0.94	0.36	0
	1.78	0.41	0	0.89	0.19	0
	2.63	5.61	1	1.04	0.24	0
	1.35	0.55	0	1.12	0.49	0
	1.75	0.31	1	0.91	2.17	0
	1.91	0.51	0	0.96	0.18	0
	2.23	0.42	0	1.09	0.12	0
	1.12	0.17	0	0.88	0.23	0
	2.16	0.08	0	1.07	0.44	0
	1.75	0.26	0	0.9	0.32	0
	1.6	0.16	0	0.93	0.2	0
	1.61	0.57	0	0.97	0.25	0
	1.39	0.18	0	0.99	0.42	0
	1.23	0.05	1	0.98	0.39	0
	1.43	0.3	0	1	0.24	0
	0.86	0.16	1	0.98	0.08	0
	1.44	0.18	0	0.78	0.28	0
	2.07	0.35	0	1.07	0.21	0
n/a	n/a		0 n/a	n/a		0
	1.91	0.46	0	0.84	0.25	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.86	0.18	0 n/a	n/a		0
	2	0.67	0 n/a	n/a		0
	1.34	0.46	0 n/a	n/a		0
	1.05	0.41	0	1.03	0.36	0
n/a	n/a		0 n/a	n/a		0
	0.99	0.25	1	1.05	0.29	0
	1.44	0.76	0	1.11	0.24	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0

n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
	0.17	0.04	1	0.68	0.49	1
	1.54	0.16	0	1.01	0.3	0
	1.18	0.08	1	1.23	0.2	0
	1.5	0.08	0	1.13	0.24	0
	1.56	1.14	0	1.08	0.23	0
n/a	n/a	0	n/a	n/a	0	
	1.87	0.21	0	1.09	0.4	0
	1.71	0.41	0	1.08	0.19	0
	1.51	0.12	0	0.96	0.25	0
	1.33	0.2	1	1.66	0.4	0
	1.74	0.24	0	0.9	0.14	0
	2.15	0.62	0	1.11	0.24	0
	1.55	0.2	0	1.13	0.32	0
	1.89	0.34	0	1.09	0.19	0
	1.69	0.24	0	1.09	0.15	0
	0.71	0.16	1	1.28	0.31	0
	1.51	0.5	0	1.17	0.35	0
	1.89	1.23	0	0.97	0.18	0
	1.88	0.24	0	0.99	0.28	0
	1.8	0.19	0	0.93	0.2	0
	1.86	0.19	0	1.19	0.3	0
	1.5	0.2	0	1.3	0.2	0
	1.36	0.38	0	1.02	0.18	0
	1.46	0.02	1	1.06	0.3	0
	1.51	0.28	0	1.11	0.27	0
	1.03	0.31	0	1.02	0.36	0
	0.78	0.06	1	1.2	0.28	0
	2.55	0.22	0	1.12	0.58	0
	1.25	0.14	0	1.16	0.38	0
	1.57	0.19	1	3.52	1.22	0
	2.46	0.77	0	0.91	0.12	0
	0.66	0.23	1	4.64	4.4	1
	2.16	0.18	0	0.84	0.13	0
	1.87	0.19	0	1.34	0.29	0
	1.49	0.14	0	1.01	0.36	0
	1.71	0.13	0	1.1	0.28	0
	2.44	0.45	0	1	0.13	0
	1.91	0.27	0	1	0.25	0
	1.3	0.3	0	5.23	1.82	0
			0	0.99	0.41	0
	2.36	0.45	0	0.99	0.23	0
	1.23	0.23	0	0.84	0.31	0
	1.17	0.1	0	0.91	0.23	0
	0.84	0.26	0	1.18	0.26	0
	0.29	0.07	1	1.07	0.26	1
	1.54	0.12	1	1.11	0.32	0
	1.25	0.26	0	0.85	0.21	0

n/a	n/a	0	n/a	n/a	0	
	0.47	0.13	1	1.38	0.53	0
	0.54	0.16	1	1.17	0.22	0
			1	0.89	0.13	0
n/a	n/a	0	n/a	n/a	0	
	2.75	0.21	1	1.38	0.69	0
	1.3	0.76	0	0.94	0.52	0
	1.4	0.21	0	1.01	0.32	0
n/a	n/a	0	n/a	n/a	0	
	1.28	0.07	0	1	0.17	0
	1.13	0.07	0	0.94	4.69	0
	1.6	0.19	0	0.81	0.15	0
	0.88	0.09	1	0.88	0.17	0
			0	0.98	0.24	0
	0.52	0.07	1	0.93	0.82	0
	1.38	0.1	0	1.18	0.53	0
	1.35	0.23	0	0.82	0.22	0
	1.4	0.3	0	1.07	0.19	0
	0.63	0.13	1	1.01	0.55	0
	1.12	0.16	0	1	0.27	0
	1.31	0.11	0	0.8	0.61	0
	1.51	1.16	0	0.85	0.25	0
	0.97	0.49	0	0.98	1.86	0
	0.53	0.08	1	0.92	0.18	0
	1.22	0.12	0	1.12	0.32	0
	1.58	0.26	0	0.91	0.32	0
	1.88	0.08	0	1.12	0.34	0
	1.09	0.14	0	1.01	0.17	0
	1.09	0.12	0	1.01	0.43	0
	1.3	0.21	0	0.99	0.38	0
n/a	n/a	0	n/a	n/a	0	
	1.38	1.13	0	0.99	0.17	0
	1.3	0.14	1	0.86	0.25	0
n/a	n/a	0	n/a	n/a	0	
	1.54	0.37	0	1.05	0.51	0
n/a	n/a	0	n/a	n/a	0	
	0.49	0.04	1	1.17	0.3	0
	1.12	0.26	1	0.94	0.22	0
	1.47	0.03	0	0.69	0.44	0
	1.78	0.39	0	0.82	0.49	0
	1.4	0.45	0	1.11	0.36	0
n/a	n/a	0	n/a	n/a	0	
	1.36	0.05	1	1.07	0.13	1
n/a	n/a	0	n/a	n/a	0	
	0.82	0.06	1	1.09	0.29	0
	1.77	0.22	1	1.46	0.62	0
n/a	n/a	0	n/a	n/a	0	
			1	0.87	0.22	0
n/a	n/a	0	n/a	n/a	0	
	1.26	0.05	0	1.04	0.39	0
n/a	n/a	0	n/a	n/a	0	
			0	0.8	0.08	0



	1.09	0.15	1	1.29	0.32	0
	1.64	0.24	0	1.02	0.27	0
	1.59	0.82	0	1	0.29	0
	1.14	0.08	1	1.12	0.22	0
	1.43	0.09	1	0.83	0.17	0
	0.87	0.17	1	0.91	0.48	0
	1.22	0.18	0	1.26	0.22	0
	1.78	0.28	0	0.83	0.25	0
	1.07	0.28	1	1.13	0.25	0
	1.12	0.19	0	0.82	0.15	0
	1.37	0.27	0	0.96	0.21	0
	1.11	0.22	0	0.96	0.38	0
	1.27	0.08	0	0.99	0.22	0
	1.17	0.17	0	1.01	0.4	0
	0.85	0.18	1	0.95	0.55	0
	1.42	0.32	0	1.01	0.37	0
	1.56	0.19	0	1	0.27	0
n/a	n/a		0 n/a	n/a		0
	1.55	0.15	0	0.95	0.21	0
n/a	n/a		0 n/a	n/a		0
	1.46	0.03	0	1.2	0.31	0
	0.44	0.09	1	1.04	0.17	0
	1.75	0.19	0	0.9	0.71	0
n/a	n/a		0 n/a	n/a		0
	1.25	0.29	0	1.04	0.23	0
n/a	n/a		0 n/a	n/a		0
	1.94	0.3	1	1.15	0.3	0
	1.94	0.07	1	1.39	0.51	0
	1.39	0.2	0	0.97	0.27	0
			0	1.18	0.36	0
	1.2	0.06	0	1	0.44	0
	0.6	0.09	1	0.96	0.17	0
	1.6	0.12	0	0.85	0.35	0
	3.67	1.13	1	1.23	0.35	0
	1.47	0.12	0	0.9	0.21	0
	1.36	0.13	0	1.3	0.37	0
	1.18	0.36	0	1.18	0.27	0
	1.95	0.34	0	1.14	0.18	0
	0.87	0.1	1	0.69	0.25	0
	2.2	1.23	1	4.47	3.25	0
	1.03	0.09	1	1.26	0.61	0
	1.36	0.15	0	0.88	0.88	0
	0.47	0.05	1	1.02	0.1	0
	0.8	0.15	0	1.04	0.22	0
	1.04	0.4	0	0.87	0.27	0
	1.75	0.18	0	0.89	0.25	0
	1.45	0.14	0	0.91	0.36	0
	1.59	0.33	0	1.15	0.54	0
	0.37	0.04	1	1.06	0.38	0
	0.72	0.05	1	1.59	0.26	0
	1.34	0.14	0	0.92	0.2	0
	1.28	0.21	0	0.9	0.24	0

	1.4	0.28	0	1.09	0.39	0
	1.48	0.17	0	0.99	0.31	0
	2.32	0.44	0	1.53	0.91	0
n/a	n/a		0 n/a	n/a		0
	1.62	0.1	0	1.32	0.97	0
n/a	n/a		0 n/a	n/a		0
	1.32	0.17	0	0.77	0.22	0
	1.52	0.13	0	1.04	0.2	0
	1.16	0.15	1	0.99	0.24	0
	1.62	0.47	0	1.08	0.59	0
	1.25	0.28	0	1.04	0.51	0
	1.43	0.17	0	0.93	0.22	0
	1.3	0.41	0	0.94	0.3	0
	1.02	0.36	1	0.84	0.22	0
	0.94	0.05	1	0.97	0.24	0
	0.95	0.33	0	0.86	0.28	0
	1.49	0.12	0	0.91	0.31	0
	1.19	0.43	0	0.88	0.48	0
	0.89	2.94	0	0.99	0.18	0
	1.66	0.42	0	1.09	0.42	0
	0.22	0.05	1	0.56	0.07	1
	0.63	0.12	0	0.9	0.08	0
	0.92	0.09	1	1.36	0.69	0
	1.21	0.22	0	1.09	0.3	0
	1.33	0.2	0	1.04	0.37	0
	0.09	0.02	1	0.78	0.09	1
	0.5	0.11	1	0.97	0.3	0
	1.43	0.23	0	1.16	0.34	0
	1.03	0.45	1	1.72	0.42	0
	1.54	0.15	1	1.23	0.23	0
	0.7	0.1	1	0.82	0.34	1
	0.57	0	1	1.35	0.41	0
	1.1	0.11	0	0.96	0.23	0
	0.17	0.03	1	0.97	0.16	0
	1.26	0.03	0	0.88	0.19	0
	0.48	0.02	1	1.08	0.5	0
	1.49	0.25	0	0.94	0.35	0
	0.35	0.07	1	1.08	0.19	0
	1.59	0.36	0	1.15	0.27	0
	1.36	0.48	0	1.02	0.27	0
	1.39	0.27	0	1.04	0.37	0
n/a	n/a		0 n/a	n/a		0
			0	0.92	0.3	0
	0.49	0.02	1	0.98	0.2	0
	0.12	0.02	1	1.08	0.12	1
	0.73	0.15	1	0.91	0.37	0
	1.37	0.3	0	1.14	1.31	0
	1.14	0.22	0	0.98	0.32	0
			0	0.97	0.28	0
	0.93	0.19	1	0.98	0.57	0
			1	1.76	0.67	0
	1.02	0.37	0	0.83	0.44	0

0.49	0.11	1	0.68	0.12	0
0.58	0.1	1	0.9	0.18	0
0.29	0.08	1	1.15	0.2	1
1.39	0.28	0	1.25	0.49	0
0.19	0.09	1	1.06	0.4	0
2.09	0.56	0	0.96	0.15	0
1.02	0.09	0	0.87	0.47	0
6.06	1.02	1	2.86	0.14	1
0.93	0.13	1	1.16	0.43	0
1.55	0.19	0	1.02	0.38	0
1.76	0.33	0	0.89	0.59	0
1.57	0.22	0	0.92	0.15	0
1.42	0.63	0	1.17	0.25	0
1.63	0.07	0	1.07	0.13	0
1.01	0.31	0	0.84	0.38	0
		1	0.96	0.22	0
1.11	0.04	0	0.75	0.31	0
0.82	0.21	1	1.62	0.28	0
0.71	0.15	1	1.19	0.26	0
1.23	0.09	0	0.99	0.18	0
1.75	0.45	1	1.22	0.37	0
1.34	0.16	0	1.1	0.68	0
n/a	n/a	0	n/a	n/a	0
		0	1.22	0.41	0
		0	0.96	0.69	0
		0	0.98	0.16	0
n/a	n/a	0	n/a	n/a	0
		0	1.06	0.23	0
n/a	n/a	0	n/a	n/a	0
		1	1.03	0.24	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
		0	1.13	0.43	0
		1	1.01	0.15	1
		0	0.78	0.2	0
		0	0.82	0.38	0
		0	1.05	0.38	0
		0	0.89	0.21	0
		0	1.27	0.44	0
		0	0.95	0.21	0
		0	n/a	n/a	0
		1	1.09	0.1	0
		1	0.86	0.15	1
		1	1.61	0.5	0
		0	0.93	0.13	0
		0	1.03	0.37	0
		0	1.07	0.32	0
		0	0.93	0.53	0
n/a	n/a	0	n/a	n/a	0
		0	1.02	0.38	0
		0	1.5	0.46	0
		0	1.04	0.19	0

	0.5	0.18	1	0.76	0.15	0
	1.11	0.3	0	0.86	0.34	0
	1.06	0.06	0	0.96	0.34	0
	1.32	0.06	0	0.93	0.22	0
	1.4	0.21	0	0.85	0.33	0
	1.37	0.32	0	0.92	0.3	0
	1.2	0.29	0	1.09	0.23	0
	2	0.18	1	0.97	0.25	0
	1.76	0.35	1	1.01	0.29	0
	1.37	0.16	1	0.97	0.25	0
	0.76	0.11	1	1.33	0.19	0
	1.09	0.1	0	1.01	0.33	0
	2.09	0.6	0	1.05	0.71	0
	0.93	0.04	1	1.28	0.45	0
	0.54	0.09	1	0.9	0.11	0
	0.72	0.11	1	0.72	0.28	0
	1.26	0.02	0	1.24	0.62	0
	1.08	0.13	1	1.21	0.16	0
			0	1.04	0.47	0
	1.24	0.16	1	1.16	0.25	0
	0.89	0.11	1	0.89	0.1	0
	1.17	0.28	0	1.12	0.23	0
	0.79	0.36	1	1.1	0.2	0
	1.33	0.18	0	0.99	0.29	0
	1.85	0.15	0	1.1	0.25	0
	0.59	0.09	1	1.14	0.32	1
	1.46	0.24	0	0.96	0.21	0
	1.54	0.28	0	0.96	0.2	0
	1.38	0.25	0	0.86	19.47	0
	0.94	0.27	1	1.07	0.28	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
			0	0.97	0.22	0
n/a	n/a		0	n/a	n/a	0
			1	0.98	0.16	0
	1.39	0.29	1	0.89	0.11	0
	1.26	0.11	0	1.13	0.3	0
	0.58	0.05	1	1.02	0.22	0
	1.46	0.25	0	0.88	5.84	0
	1.76	0.45	0	1.17	0.35	0
	1.84	0.71	0	1.18	0.41	0
	0.26	0.03	1	1.47	0.09	1
	0.6	0.22	1	0.89	0.18	0
	1.7	0.18	0	0.93	0.07	0
	0.55	0.08	1	1.14	0.09	0
	1.67	0.58	0	1.05	0.37	0
	1.96	0.17	0	0.92	0.28	0
	1.56	0.18	1	1.93	0.44	0
	1.42	0.12	0	1.09	0.19	0
	1.47	0.2	0	0.92	0.32	0
n/a	n/a		0	n/a	n/a	0

	1.46	0.37	0	0.96	0.35	0
	1.93	0.3	0	0.82	0.38	0
	1.1	0.22	1	0.93	0.14	0
	1.34	0.25	0	0.94	0.23	0
			0	0.99	0.16	0
	1.28	0.26	1	1.06	0.52	0
	1.41	0.34	0	0.92	0.34	0
	0.66	0.1	1	1.16	0.29	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.55	0.09	1	0.8	0.07	0
	1.25	0.2	1	1.21	0.19	0
	1.74	0.18	0 n/a	n/a		0
	1.17	0.05	0	0.97	0.75	0
	1.49	0.08	0	4.9	1.68	0
			0	0.86	0.28	0
	1.36	0.23	1	1.09	0.15	0
	1.08	0.23	0	0.89	0.4	0
	1.02	0.33	0	0.93	0.18	0
	1.37	0.21	0	0.88	0.3	0
	1.59	0.23	1	0.79	0.19	0
	1.61	0.2	0	1.05	0.14	0
	1.4	0.14	0	1.01	0.22	0
	1.09	0.24	0	1.04	0.13	0
			0	1.34	0.3	0
	1.16	0.18	0	0.9	0.38	0
	2.1	0.5	0	0.77	0.3	0
	1.35	0.3	0	0.91	0.33	0
	1.23	0.28	0	1.06	0.28	0
	0.49	0.08	1	1.08	0.25	0
	1.13	0.35	0	1.03	0.18	0
	1.25	0.16	0	1.12	0.31	0
			0	0.79	0.3	0
	1.82	0.11	0	0.92	0.25	0
	1.41	0.59	0	1.06	0.27	0
	1.41	0.19	0	0.97	0.61	0
	1.84	0.14	0	0.93	0.12	0
	2.28	0.41	0	0.92	0.34	0
	1.49	0.73	0	0.88	0.17	0
	1.57	0.23	0	0.92	0.18	0
	1.84	0.32	0	0.89	0.2	0
	1.49	0.22	1	4.27	1.31	0
	0.94	0.65	0	0.86	0.24	0
	1.25	0.41	0	1	0.33	0
	0.51	0.14	1	1.17	0.26	1

	1.74	0.14	0	0.96	0.32	0
	2.06	0.86	0	0.76	0.23	0
	0.98	0.12	0	0.88	0.26	0
	1.04	0.19	0	0.95	0.18	0
	1.02	0.21	0	1.04	0.17	0
	1.1	0.35	0	1.09	0.16	0
	1.75	0.17	0	0.83	0.35	0
	1.12	0.27	1	1.25	0.68	0
	1.9	0.13	0	1.35	0.34	0
	0.77	0.14	1	1.1	0.25	0
	0.57	0.11	1	1.28	0.29	0
	1.18	0.14	0	1.68	0.71	0
	0.67	0.06	1	1.93	0.47	0
	0.3	0.6	1	1.08	0.29	0
			0	0.85	0.24	0
			0	1.23	0.23	0
			0	1.05	0.23	0
	1.33	0.1	0	1.19	0.34	0
n/a	n/a		0 n/a	n/a		0
	1.21	0.71	0	0.93	0.37	0
	0.54	0.04	1	0.8	0.52	0
n/a	n/a		0 n/a	n/a		0
			0	0.88	0.14	0
	1.51	0.96	0	1.33	0.46	0
	1.21	0.28	0	1.07	0.21	0
	0.51	0.06	1	1.36	0.21	0
n/a	n/a		0 n/a	n/a		0
	1.34	0.19	1	1.12	0.38	0
	1.92	0.11	0	1.25	0.38	0
	2.3	1.41	0	1.11	0.31	0
n/a	n/a		0 n/a	n/a		0
	1.57	0.22	0	0.81	0.54	0
	0.7	0.58	0	0.77	0.56	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.11	0.03	1	1.18	0.37	1
	1.01	0.04	1	0.97	0.23	0
n/a	n/a		0 n/a	n/a		0
	1.57	0.29	0	0.87	0.09	0
	1.41	0.19	0	0.9	0.2	0
	1.33	0.1	0	0.83	0.17	0
	1.78	0.24	1	0.88	0.18	0
	1.8	0.36	0	1.08	0.37	0
	1.94	0.4	0	1.13	0.6	0
	1.87	0.18	0	1.01	0.38	0
	1.01	0.15	0	1.18	0.38	0
n/a	n/a		0 n/a	n/a		0
	1.01	1.84	0	1.1	0.31	0
			0	0.99	0.24	0
	1.48	0.14	0	0.9	0.23	0
	1.75	0.17	0	0.81	0.18	0

n/a	n/a	0	n/a	n/a	0	
	1.22	0.06	0	1.29	0.31	0
	1.37	0.09	0	0.86	0.19	0
	1.45	0.1	0	1.18	0.23	0
	1.26	0.3	0	0.86	0.23	0
	1.85	0.49	0	0.99	0.24	0
n/a	n/a	0	n/a	n/a	0	
	1.33	0.56	0	0.85	0.31	0
	1.39	0.32	0	0.95	0.22	0
n/a	n/a	0	n/a	n/a	0	
	1.77	0.12	0	1.05	0.39	0
n/a	n/a	0	n/a	n/a	0	
	1.44	0.1	0	1.07	0.36	0
n/a	n/a	0	n/a	n/a	0	
	1.6	1.12	0	1.01	0.36	0
	1.52	213.88	0	0.97	0.19	0
	1.05	0.08	1	0.91	0.26	0
	1.54	0.22	0	0.69	0.17	0
	1.61	0.28	0	1.1	0.26	0
	1.19	0.08	0	1.03	0.26	0
	1.18	0.07	0	1.1	0.16	0
	0.87	0.07	1	0.83	0.14	0
	1.34	0.42	0	0.88	0.25	0
n/a	n/a	0	n/a	n/a	0	
	1.29	0.38	0	1.02	0.34	0
	1.78	0.15	0	0.88	0.22	0
	0.67	0.31	1	1.09	0.34	1
	1.83	1.24	0	1.17	1.11	0
	1.57	0.51	0	1.03	0.12	0
n/a	n/a	0	n/a	n/a	0	
	1.65	0.28	1	1.22	0.38	0
	2.24	0.53	0	1.03	0.42	0
			1	1	0.33	0
	1.35	0.16	0	1	0.24	0
	1.08	0.02	1	0.89	1.08	0
			1	0.97	0.38	1
	0.79	0.52	0	0.98	0.34	0
n/a	n/a	0	n/a	n/a	0	
	0.42	0.06	1	1.01	0.12	0
	6.51	1.36	1	1.16	0.28	0
	1.74	0.38	1	1.07	0.22	0
	1.88	0.65	0	1.04	0.38	0
	1.45	0.13	1	1.08	0.34	0
	1.78	0.25	0	0.97	0.24	0
	1.5	0.34	1	1.25	0.53	0
	2.09	0.49	0	1.11	0.22	0
	1.58	0.24	0	1.08	1.34	0
	1.29	0.17	0	1.04	0.33	0
	1.51	0.27	0	1.01	0.25	0
	1.24	0.22	0	0.94	0.52	0
	1.64	0.34	0	1	0.44	0
n/a	n/a	0	n/a	n/a	0	

0.71	0.07	1	1.09	0.42	0
1.25	0.26	0	1.14	0.15	0
1.68	0.31	0	1.27	0.63	0
1.4	0.38	0	0.89	0.27	0
1.57	0.31	0	1.16	0.18	0
1.07	0.17	0	0.77	0.77	0
1.35	0.37	0	0.95	0.25	0
1.62	0.67	0	0.87	0.15	0
1.24	0.1	0	0.78	0.11	0
1.25	0.19	0	0.97	0.28	0
1.71	0.36	0	0.91	0.2	0
1.71	0.24	0	1.14	0.3	0
2.31	0.41	0	1.11	0.35	0
1.26	0.77	0	0.84	0.5	0
1.41	0.39	0	1.07	0.41	0
1.42	0.12	0	1.01	0.17	0
1.54	0.48	0	1.08	0.23	0
0.39	0.05	1	1.02	0.4	0
1.06	0.16	0	1.17	0.29	0
1.19	0.71	0	1.04	0.51	0
2.16	1.14	0	0.9	0.27	0
1.7	0.35	0 n/a	n/a		0
1.73	0.2	0	1.24	0.13	0
		1	1.07	0.46	0
1.54	0.73	0	0.83	0.1	0
0.44	0.05	1	1.08	0.26	0
1.45	0.1	0	0.76	0.2	0
1.51	0.16	0	1.08	0.21	0
1.97	0.61	0	0.85	0.5	0
2.15	1.04	0	1.14	0.46	0
0.62	0.2	1	1.03	0.62	0
0.66	0.44	1	1.12	0.14	0
1.26	0.52	0	1.21	0.34	0
1.11	0.56	0	1.01	0.28	0
1.35	0.8	1	2.29	0.88	0
0.87	0.18	0	0.96	0.33	0
0.07	0.05	1	0.77	0.47	1
1.78	0.45	0	1.11	0.82	0
1.72	0.17	0	0.75	0.18	0
1.19	0.4	1	1.18	0.54	0
1.95	0.11	0	0.94	0.37	0
1.38	0.36	1	1.09	0.24	0
1.47	0.29	0	0.9	0.17	0
1.21	0.06	1	1.05	0.18	0
1.79	0.43	0	0.89	0.2	0
1.65	0.11	0	0.86	0.13	0
1.3	0.08	0	0.8	0.14	0
0.98	0.23	0	1.05	0.2	0
1.71	0.3	0	1.16	0.13	0
1.24	0.24	0	1.03	0.48	0
1.16	9	0	0.94	0.69	0
9.61	39.79	1	1.67	0.84	0



1.96	1.18	0	1.21	0.22	0
1.95	0.03	0	0.94	0.65	0
1.93	0.44	0	1.12	0.14	0
1.53	0.1	0	0.89	0.19	0
1.13	0.37	0	0.91	0.27	0
2.59	0.39	1	0.86	0.32	0
0.93	0.15	1	0.9	0.2	0
0.59	0.12	1	0.97	0.12	0
0.52	0.05	1	1.01	0.43	0
0.66	0.13	1	1	0.29	0
0.6	0.06	1	0.83	0.28	0
0.78	0.1	1	0.85	0.22	0
0.8	0.03	1	0.89	0.14	0
0.12	0.01	1	0.75	0.98	0
1.92	0.5	0	1.36	0.44	0
1.94	1.81	0	1.2	0.31	0
1.48	0.6	0	0.99	3.23	0
0.83	0.51	1	1.17	0.45	0
1.16	1.19	0	1.1	0.3	0
2.18	0.59	0	1.22	1.16	0
1.59	0.67	0	0.89	0.22	0
1.54	0.24	0	1.02	0.19	0
n/a	n/a	0	n/a	n/a	0
0.89	0.21	1	1.09	0.19	0
1.03	0.08	0	0.97	0.32	0
1.35	0.39	1	1.13	0.26	0
2.32	0.44	0	0.9	0.22	0
		0	0.97	0.44	0
1.84	0.34	0	0.77	0.32	0
1.61	0.3	1	1.04	0.32	0
1.2	0.25	1	1	0.11	0
1.01	0.26	1	1.21	0.34	0
2.71	2.19	0	1.33	0.42	0
1.93	0.93	0	0.95	0.69	0
1.6	0.26	0	1.34	0.4	0
1.13	0.1	0	1.27	0.31	0
1.54	0.2	0	1.23	0.34	0
1.38	0.18	0	1.08	0.18	0
0.71	0.16	1	1.46	0.26	0
1.66	0.34	0	1.01	0.31	0
n/a	n/a	0	n/a	n/a	0
1.17	0.48	1	1.31	0.43	0
		0	0.86	0.43	0
n/a	n/a	0	n/a	n/a	0
1.47	0.37	0	0.87	0.12	0
0.58	0.11	1	1	0.13	0
1.66	0.06	0	1.27	0.25	0
0.87	0.46	0	1	0.21	0
1.68	0.33	0	1.01	0.38	0
2.68	1.04	0	0.91	0.56	0
1.43	0.49	0	1.52	0.44	0
0.95	0.64	1	0.99	0.22	0

	1.42	0.35	0	1.03	0.28	0
	1.66	0.1	0	1.22	0.48	0
	1.74	0.13	0	1.17	0.24	0
	2.15	1.06	0	1.09	0.42	0
	1.42	0.46	0	0.73	0.17	0
	2.78	0.9	0	0.92	0.29	0
	1.78	0.16	0	0.82	0.22	0
	1.22	0.24	1	0.91	0.24	0
	1.54	0.46	0	0.9	0.17	0
	1.29	0.41	0	0.95	0.4	0
	1.05	0.06	1	1.03	0.2	0
	1.69	0.22	0	1.05	0.2	0
	1.51	0.35	0	0.96	0.09	0
	1.39	0.49	0	0.84	0.22	0
	1.02	0.27	1	0.98	0.16	0
	2.32	0.11	0	1.24	0.29	0
	2.15	0.66	0	0.82	0.44	0
	1.4	0.27	0	1.12	0.25	0
	2.03	0.08	0	1.05	0.29	0
n/a	n/a		0 n/a	n/a		0
	2.33	0.16	0	1.21	0.2	0
	1.87	0.32	0	0.82	0.09	0
n/a	n/a		0 n/a	n/a		0
	1.53	0.22	0	1.14	0.43	0
	1.82	0.42	0	1.19	0.21	0
	0.08	0.01	1	0.68	0.49	1
	1.39	0.06	1	1.49	0.34	0
	1.08	0.17	1	0.95	0.18	0
	1.2	0.44	0	1.06	0.5	0
	1.16	0.78	0	1.02	0.12	0
	1.36	0.12	1	1.01	0.26	0
	1.33	0.1	1	1.2	0.33	0
	1.44	0.13	0	1.09	0.26	0
	0.52	0.57	1	0.9	0.16	0
	1.16	0.34	1	1.48	0.45	0
	1.71	0.05	0	1.44	0.38	0
	1.2	0.02	0	0.98	0.84	0
	1.08	0.32	0	0.84	0.77	0
	1.38	0.39	0	0.98	0.48	0
	2.94	0.63	1	1.34	1.07	1
	1.4	0.47	1	1.21	0.17	0
	2.16	0.41	0	1.17	0.29	0
	0.11	0.03	1	1.25	0.42	1
	0.76	0.04	1	0.98	0.05	0
	1.78	0.71	0	0.94	0.25	0
	1.95	0.23	1	1.47	0.37	0
	1.93	0.41	0	0.85	0.37	0
	1.98	0.43	0	1.07	0.12	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.61	1.49	0	1.23	0.27	0



	1.52	0.37	0	0.78	0.3	0
	1.89	1	0	1.11	0.25	0
	1.56	3.15	0	1.34	0.31	0
	1.63	0.33	0	1.14	0.43	0
	1.3	0.52	0	0.91	0.27	0
	1.54	0.26	1	1.31	0.19	0
	0.93	0.43	0	2.01	0.55	0
	1.53	0.26	0	1.05	0.2	0
	0.94	0.3	1	1.13	0.34	0
	1.82	0.46	0	0.87	0.11	0
	0.84	0.1	1	0.89	0.24	0
	1.5	0.17	0	0.93	0.23	0
	0.59	0.06	1	0.99	0.21	0
	1.38	0.39	1	0.81	0.24	0
	1.99	0.21	0	0.98	0.24	0
	1.66	0.33	0	0.88	0.15	0
	1.01	0.24	1	1.21	0.58	1
	1.72	0.24	0	0.82	0.14	0
	1.67	0.34	0	0.99	0.29	0
	1.65	0.67	1	0.86	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.43	0.27	0	1.22	0.3	0
	1.57	0.24	0	0.85	0.14	0
n/a	n/a		0 n/a	n/a		0
			0	1.12	0.26	0
	1.43	0.59	0	0.81	0.15	0
	0.65	0.28	1	1.11	0.18	0
	1.5	0.38	0	0.96	0.43	0
	1.67	0.57	0	0.8	0.28	0
	0.89	0.4	1	1.02	0.26	0
	1.11	0.14	0	1.18	0.31	0
	0.8	0	1	1.09	0.24	0
	0.18	0.04	1	1.04	0.42	1
	0.14	0.04	1	0.76	0.21	0
			0	0.82	0.18	0
	0.55	0.11	1	1.11	0.39	0
	0.41	0.06	1	1.04	0.3	0
	0.58	0.06	1	0.99	0.08	0
	1.88	0.13	0	1.05	0.15	0
	0.47	0.05	1	0.88	0.28	0
	1.85	0.32	0	0.97	0.24	0
	1.12	0.14	1	1.19	0.25	0
	1.62	0.61	0	0.8	0.21	0
	2.21	0.39	0	1.02	0.2	0
	1.9	0.35	0	0.96	0.3	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	2.29	0.24	0	0.99	0.24	0
	1.68	0.25	0	1.01	0.35	0
n/a	n/a		0 n/a	n/a		0
	2.19	0.35	0	0.99	0.26	0
n/a	n/a		0 n/a	n/a		0

	0.37	0.05	1	0.73	0.26	0
			1	0.91	0.26	1
	1.23	0.18	0	1.02	0.32	0
	1.41	0.34	0	0.85	0.23	0
	1.54	0.33	1	0.98	0.06	0
	4.47	2.4	1	0.86	0.17	0
	0.88	0.22	1	0.86	0.24	0
	1.5	0.22	0	0.82	0.2	0
	1.5	0.41	0	1.01	0.06	0
			0	1	0.16	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.01	0.08	1	0.86	0.11	0
	1.99	0.19	0	0.84	0.25	0
	0.88	0.17	1	1.15	0.25	0
	1.62	0.27	0	0.95	0.22	0
	1.78	0.08	0	0.86	0.18	0
	1.67	0.37	0	0.77	0.3	0
	0.32	0.11	1	1.56	0.37	1
	1.21	0.26	0	0.98	0.36	0
n/a	n/a		0 n/a	n/a		0
	0.75	0.07	1	0.92	0.19	0
n/a	n/a		0 n/a	n/a		0
	0.77	0.09	1	0.83	0.12	0
	1.19	0.64	0	0.83	0.13	0
	1.3	0.46	0	1.02	0.27	0
n/a	n/a		0 n/a	n/a		0
			0	0.96	0.21	0
	1.72	0.16	0	0.97	0.26	0
	0.35	0.03	1	0.75	0.23	0
	0.8	0.09	1	0.91	0.3	0
	1.91	0.04	0	0.9	0.3	0
	1.88	0.13	0	0.88	0.12	0
n/a	n/a		0 n/a	n/a		0
	1.63	0.58	0	0.91	0.15	0
	1.32	0.54	1	0.75	0.33	0
	1.76	0.49	0	0.89	0.16	0
	1.86	0.28	0	0.84	0.07	0
n/a	n/a		0 n/a	n/a		0
	2.16	0.63	0	0.96	0.68	0
	1.65	0.19	0	0.81	0.48	0
	1.16	5.54	0	0.83	0.18	0
			1	0.95	0.19	0
	1.89	0.27	0	1.2	0.24	0
	1.17	0.2	1	0.94	0.13	0
	1.79	0.43	0	1.05	0.21	0
	2.83	0.93	1	1.59	1.03	0
	1.33	0.32	0	0.9	0.33	0
	0.54	0.12	1	0.92	0.14	0
	8.54	1.75	1	1.13	0.81	0
	0.5	0.04	1	0.91	0.28	0
	1.27	0.08	0	1.03	0.35	0

	1.33	1.2	0	1.06	0.46	0
n/a	n/a		0 n/a	n/a		0
			0	0.9	0.5	0
	1.23	0.55	0	0.96	1.2	0
	2.05	0.14	0	0.81	0.13	0
	0.91	0.17	1	0.86	0.21	0
	1.43	0.35	0	0.88	0.19	0
			0	0.99	0.33	0
	1.6	0.29	0	0.93	0.16	0
	2.08	0.52	0	0.88	0.17	0
	1.92	0.16	1	0.86	0.29	0
	1.18	0.61	0	0.79	0.2	0
	2.01	0.33	0	1.11	0.24	0
	0.7	0.1	1	0.87	0.22	0
	1.17	0.07	1	1.18	0.18	0
	1.74	0.37	1	1.43	0.3	0
	4.17	0.49	1	1.19	0.29	0
	1.69	0.3	0	0.97	0.44	0
	0.68	0.04	1	0.82	0.19	0
	2.14	0.23	0	0.99	0.13	0
			0	0.81	0.16	0
	1.37	0.31	0	1.16	0.47	0
	1.86	0.51	0	0.78	0.12	0
	1.21	0.06	0	1.14	0.19	0
			0	0.79	0.2	0
	3.03	0.93	1	0.8	0.19	0
	1.75	0.27	0	0.78	0.26	0
n/a	n/a		0 n/a	n/a		0
	1.95	0.42	0	0.99	0.25	0
	1.5	0.33	0	0.85	0.26	0
	1.39	0.08	0	0.93	0.15	0
	1.05	0.3	0	0.83	0.16	0
n/a	n/a		0 n/a	n/a		0
	1.46	0.72	0	0.86	0.16	0
	1.68	0.15	0	0.88	0.29	0
	1.45	0.1	0	1.03	0.33	0
			1	1.04	0.58	1
	1.19	0.14	0	0.73	0.2	0
	1.22	0.51	0	0.87	0.27	0
	2.24	0.11	0	1.1	0.34	0
	1.06	0.05	1	0.9	0.08	0
	1.55	0.16	0	0.97	0.32	0
	0.57	0.07	1	1.35	0.55	0
	1.2	0.15	1	1.03	0.13	0
	1.14	0.33	0	0.95	0.33	0
	2.28	0.6	0	0.92	0.36	0
	0.65	0.11	1	1.22	0.43	0
	0.15	0	1	0.97	0.39	1
	1.83	0.17	0	1.02	0.26	0
	1.65	0.11	0	1.01	0.26	0
	2.05	0.06	0	0.96	0.49	0
	2.13	0.51	0	1.18	0.27	0

0.1	0.02	1	0.88	0.25	1
1.22	1.54	0	0.85	0.51	0
1.24	0.6	0	0.97	0.32	0
0.46	0.04	1	1.07	0.32	0
1.36	0.11	0	1	0.18	0
1.12	0.31	0	0.94	0.16	0
0.12	0.03	1	0.75	0.32	1
		0	0.83	0.36	0
1.66	0.11	1	1.34	0.19	0
0.24	0.03	1	0.92	0.43	1
1.69	0.28	0	0.9	0.2	0
1.23	0.95	0	0.87	0.39	0
1.81	0.33	0	0.93	0.26	0
0.43	0.11	1	0.93	0.38	0
1.57	0.47	0	0.82	0.28	0
		1	0.98	0.15	0
1	0.14	1	0.93	0.25	0
0.55	0.14	1	0.84	0.55	1
1.41	0.43	0	0.81	0.43	0
0.97	0.43	0	1.02	0.37	0
1.36	0.16	0	0.95	0.17	0
1.32	0.43	0	0.77	0.24	0
1.7	0.99	0	0.82	0.15	0
1.35	0.21	0	1.03	0.18	0
1.22	0.34	0	0.93	0.11	0
1.65	0.38	0	1.08	0.3	0
		0	0.74	0.14	0
1.83	0.47	0	0.91	0.16	0
1.36	0.37	0	0.98	0.17	0
0.85	0.17	1	1.02	0.12	0
0.83	0.1	1	1.22	0.21	0
1.92	0.34	0	1.19	0.52	0
1.9	0.43	0	1.26	0.25	0
0.62	0.04	1	1.07	0.28	0
1.26	0.17	1	1.05	0.37	0
1.49	0.4	0	1.02	0.14	0
1.87	0.27	0	0.83	0.15	0
1.61	0.39	0	0.92	0.11	0
1.15	0.16	1	1.13	0.25	0
1.26	0.22	0	0.93	0.19	0
n/a	n/a	0	n/a	n/a	0
3.61	0.54	1	1.1	0.5	0
1.4	0.12	0	1.07	0.35	0
1.51	0.24	1	0.97	0.22	0
1.02	0.1	1	1.01	0.22	0
1.09	0.1	1	1	0.29	0
1.03	0.09	1	0.97	0.3	0
1.5	0.49	0	1.08	0.28	0
1.66	0.07	0	0.93	0.29	0
1.23	0.41	0	0.95	0.26	0
1.63	0.43	0	0.99	0.28	0
0.3	0.11	1	0.68	0.16	0

	1.18	0.19	1	1.23	0.3	0
	1.46	0.17	0	0.89	0.15	0
	1.14	0.37	0	0.74	0.11	0
	1.23	0.05	0	1.18	0.43	0
	1.57	0.05	1	1.13	0.36	0
n/a	n/a		0	n/a	n/a	0
	1.94	0.34	0	0.82	0.48	0
	0.88	0.16	1	1.04	0.2	0
	1.67	0.25	0	1.06	0.15	0
	0.73	0.02	1	0.97	0.04	0
	1.37	0.63	0	0.94	0.26	0
	0.39	0.6	1	0.97	0.17	0
	0.91	0.15	0	0.78	0.32	0
	0.55	0.08	1	1.04	0.15	0
	1.75	0.4	0	1.02	0.18	0
	1.24	0.26	0	0.88	0.28	0
	1.49	0.1	0	0.93	0.37	0
	1.24	0.19	0	0.76	0.16	0
	1.03	0.13	1	1.12	0.17	0
	0.07	0.01	1	0.75	0.21	1
	1.74	0.43	1	1.15	0.22	0
	1.45	0.15	0	1.15	0.17	0
	0.03	0.01	1	0.83	0.2	1
	1.59	0.22	0	0.96	0.18	0
	0.08	0.01	1	0.84	0.27	1
	1.06	0.09	1	0.83	0.16	0
	2.2	0.33	0	1.15	0.34	0
	1.38	0.11	0	0.96	0.14	0
	1.04	0.05	1	1.03	0.29	0
			1	1.32	0.38	0
	1.2	0.38	1	1.13	0.1	0
	1.75	0.37	0	1.08	0.16	0
	1.7	21.88	0	1.14	0.35	0
	1.61	1.74	0	1.05	0.4	0
	1.44	0.15	0	0.9	0.11	0
	1.39	0.42	0	0.96	0.32	0
	1.19	0.17	0	0.86	0.15	0
	1.94	0.31	0	0.95	0.24	0
	1.55	0.38	1	0.99	0.25	0
	3.33	1.17	1	0.87	0.19	0
	0.89	0.15	1	1.08	0.34	0
	1.25	0.26	0	0.83	0.43	0
	1.66	0.37	0	0.9	0.22	0
	1.68	0.53	0	0.93	0.17	0
n/a	n/a		0	n/a	n/a	0
	0.54	0.1	1	0.96	0.22	0
n/a	n/a		0	n/a	n/a	0
	1.58	0.31	1	1.08	0.21	0
n/a	n/a		0	n/a	n/a	0
	0.87	0.24	0	1.09	0.14	0
	0.86	0.04	1	0.95	0.38	0
	1.16	0.54	0	1.23	0.31	0



n/a	n/a	0	n/a	n/a	0
1.71	0.17	0	0.72	0.21	0
2.31	0.6	0	1.03	0.15	0
1.19	0.25	1	0.99	0.28	0
2.03	0.52	0	0.88	0.1	0
		0	0.8	0.22	0
1.22	0.1	0	1.07	0.17	0
0.06	0.02	1	0.73	0.21	1
0.12	0.03	1	0.63	0.21	1
1.53	1.07	0	1.16	0.31	0
1.64	0.42	0	0.74	0.55	0
0.69	0.19	1	1.08	0.23	0
		1	3.51	0.75	0
1.75	0.54	0	1.15	0.37	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
1.45	0.25	0	1.07	0.22	0
		1	1.6	0.39	1
1.66	0.02	0	0.97	0.22	0
0.43	0.04	1	0.93	0.53	1
0.9	0.3	1	0.79	0.05	0
0.86	0.08	1	1.03	0.23	0
1.43	0.14	0	1.06	0.13	0
1.45	0.29	1	0.82	0.25	0
2.33	0.61	0	0.73	0.23	0
2.1	0.43	0	1.07	0.36	0
1.64	0.21	0	0.85	0.25	0
2.17	0.33	0	0.94	0.63	0
1.22	0.04	1	0.99	0.15	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
1.49	0.13	0	0.9	0.28	0
1.86	0.09	0	0.87	0.27	0
n/a	n/a	0	n/a	n/a	0
0.69	0.05	1	1	0.3	0
n/a	n/a	0	n/a	n/a	0
		1	0.85	0.27	0
1.31	0.32	0	0.75	0.21	0
1.11	0.39	0	0.86	0.37	0
1.53	16.5	0	2.08	0.88	0
		0	0.86	0.49	0
1.28	0.44	0	1.08	0.07	0

1.57	0.43	0	1	0.24	0
1.77	0.16	0	1.28	0.33	0
2.23	1.4	0	0.67	0.44	0
1.51	0.36	0	1.11	0.21	0
1.4	0.1	0	0.73	0.31	0
1.28	0.15	1	1.51	0.23	0
1.66	0.6	0	0.86	0.24	0
2.05	0.69	0	0.8	0.24	0
2	0.29	0	0.83	0.14	0
1.34	0.13	1	0.94	0.3	0
1.11	0.09	0	0.87	0.18	0
1.35	0.38	0	0.83	0.21	0
1.78	0.44	0	0.86	0.18	0
1.93	0.78	0	0.97	0.55	0
1.01	0.12	1	1.04	0.2	0
1.11	0.53	0	1	0.14	0
1.53	0.37	0	0.95	0.17	0
1.75	0.08	0	1.1	0.3	0
2.13	1.26	0	0.89	0.27	0
1.37	0.33	0	0.98	0.38	0
1.67	0.39	0	0.99	0.29	0
1.91	0.36	0	0.93	0.04	0
1.86	0.08	0	1.13	0.43	0
1.35	0.22	0	0.97	0.12	0
1.34	0.42	0	0.86	0.28	0
1.77	0.1	0	0.94	0.15	0
1.89	0.4	0	1	0.12	0
1.03	0.24	1	1.07	0.34	1
2.04	0.31	0	1.09	0.17	0
1.69	0.32	0	0.85	0.31	0
1.33	0.02	0	0.99	0.28	0
1.38	0.24	1	1.19	0.49	0
0.9	0.04	1	0.81	0.23	0
1.2	0.41	0	1	0.3	0
0.84	0.09	0	1.01	0.18	0
2.56	1.18	0	0.87	0.22	0
1.79	0.28	0	0.83	0.37	0
0.82	0.03	1	0.91	0.22	0
		0	1	0.37	0
0.1	0.02	1	0.76	0.28	1
1.25	0.39	0	1.11	0.2	0
1.05	0.12	1	0.91	0.26	0
1.09	0.17	1	1.11	0.5	0
1.27	0.37	1	1.13	0.34	0
1.09	0.21	1	0.78	0.3	0
1.56	0.11	1	1.06	0.3	0
1.01	0.12	1	1.46	0.45	0
1.49	0.3	0	0.92	0.32	0
1.58	0.34	0	0.92	0.24	0
n/a	n/a	0	n/a	n/a	0
1.41	0.13	0	0.95	0.18	0
n/a	n/a	0	n/a	n/a	0

	2.03	0.39	0	1	0.29	0
	2.01	0.51	0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.06	0.26	1	0.9	0.15	0
			1	0.98	0.2	1
	0.91	0.18	1	1.19	0.31	0
n/a	n/a		0	n/a	n/a	0
	1.99	0.5	0	0.9	0.5	0
	1.75	0.08	0	0.85	0.3	0
n/a	n/a		0	n/a	n/a	0
	1.48	0.19	0	0.97	0.34	0
	1.47	0.31	0	0.92	0.17	0
	1.29	0.35	0	1.02	0.34	0
	1.19	0.18	0	0.94	0.27	0
	1.14	0.3	0	0.97	0.22	0
	1.55	0.32	0	1.12	0.17	0
	0.25	0.1	1	0.74	0.22	1
	1.4	0.26	0	1.01	0.72	0
	2.59	0.78	0	1	0.36	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.04	0.13	1	1.15	0.23	0
	1.77	0.21	0	0.9	0.32	0
	1.26	0.41	0	1.09	0.34	0
	2.56	0.44	0	0.92	0.34	0
	1.99	0.23	0	1.91	0.56	0
n/a	n/a		0	n/a	n/a	0
	1.13	0.45	0	1.13	0.63	0
n/a	n/a		0	n/a	n/a	0
	1.26	0.35	0	1.02	0.24	0
	0.62	0.06	1	1	0.11	0
n/a	n/a		0	n/a	n/a	0
	1.14	0.26	0	0.83	0.16	0
	1.04	0.18	0	1.11	0.33	0
	1.18	0.07	0	0.97	0.23	0
	1.39	0.08	0	1.08	0.23	0
	0.71	0.17	1	1.25	0.33	1
	1.77	0.15	0	1.29	4.49	0
	0.74	0.13	1	1.08	0.56	0
	1.93	0.26	0	0.8	0.16	0
	1.84	0.06	0	0.98	0.21	0
	2.01	0.38	0	0.8	0.23	0
	1.31	0.23	0	1.04	0.53	0
	1.61	0.17	0	1.08	0.7	0
n/a	n/a		0	n/a	n/a	0
	2.04	0.21	0	1.05	0.36	0
n/a	n/a		0	n/a	n/a	0
	1.33	0.27	1	1.03	0.28	0
	2.03	0.31	0	1.11	0.24	0
			0	0.91	0.2	0
	1.6	0.37	0	1	0.18	0
	1.76	0.17	0	0.9	0.23	0

1.64	0.51	0	1.02	0.21	0
1.92	0.1	0	0.89	0.2	0
1.42	0.09	0	0.98	0.25	0
1.27	0.05	1	1.01	0.19	0
1.88	0.18	0	1.2	0.35	0
1.01	0.14	0	0.99	0.59	0
1.89	0.28	0	0.84	0.35	0
0.71	0.06	1	1.02	0.35	0
1.25	0.13	0	0.98	0.27	0
1.25	0.28	0	1.02	0.18	0
1.48	0.5	0	0.87	0.24	0
1.51	0.44	0	0.85	0.08	0
		0	1.1	0.21	0
2.2	0.3	1	0.89	0.19	0
1.51	0.35	0	1.02	0.24	0
2.09	0.72	0	0.97	0.24	0
		1	1.05	0.2	0
1.91	0.19	0	1.01	0.47	0
1.85	0.23	0	0.88	0.26	0
1.61	0.37	0	1.04	0.42	0
2.01	0.4	0	1.02	0.08	0
n/a	n/a	0	n/a	n/a	0
1.51	0.66	0	1.01	0.19	0
0.81	0.01	1	1.18	0.38	0
1.1	0.23	0	1.04	0.27	0
0.79	0.1	1	1.11	0.22	0
3.6	0.1	1	1.95	1.82	0
0.85	0.07	0	1.08	0.2	0
0.55	0.19	1	0.94	0.18	0
1.26	0.25	1	3.11	0.98	1
0.2	0.06	1	1.04	0.08	0
2.08	0.56	0	0.86	0.18	0
n/a	n/a	0	n/a	n/a	0
0.46	0.04	1	0.97	0.28	0
n/a	n/a	0	n/a	n/a	0
2.04	0.29	0	1.08	0.19	0
		0	1.13	0.21	0
1.32	0.16	0	0.92	0.31	0
0.57	0.09	1	0.99	0.43	0
1.52	0.24	0	0.99	0.63	0
		0	1.2	0.19	0
1.68	0.4	0	0.82	0.45	0
0.57	0.08	1	1.05	0.11	0
1.97	0.5	0	1.21	0.25	0
2.11	0.66	0	0.94	0.24	0
0.81	0.09	1	1.11	0.38	0
0.84	0.09	0	1.06	0.27	0
1.35	0.23	1	1.07	0.15	0
1.5	0.2	0	0.95	0.2	0
0.94	0.42	1	1	0.13	0
0.73	0.09	1	1.05	0.34	1
2.02	0.5	0	1.01	0.18	0

1.34	0.19	0	0.9	0.17	0
1.21	0.13	0	0.84	0.36	0
1.88	0.49	0	0.9	0.16	0
1.23	0.61	0	1.12	0.21	0
1.69	0.26	0	1.05	0.23	0
1.45	0.4	0	0.76	0.16	0
1.83	0.19	0	0.99	0.19	0
1.28	0.58	0	0.91	0.4	0
1.8	0.51	1	1.7	0.57	0
1.5	0.43	0	0.92	0.24	0
1.34	0.39	0	0.93	0.23	0
1.66	0.27	0	0.98	0.2	0
1.37	0.14	0 n/a	n/a		0
1.62	0.38	0	1.14	0.16	0
0.62	0.1	1	0.92	0.2	0
0.52	0.05	1	0.85	0.28	0
0.85	0.02	1	0.9	0.17	0
1.36	0.26	0	1.19	0.23	0
1.54	0.45	0	0.99	0.19	0
1.35	0.2	0	1.23	0.42	0
1.28	0.2	0	0.94	0.2	0
1.82	0.13	0	1.13	0.48	0
2.15	0.43	0 n/a	n/a		0
1.32	0.13	0	0.87	0.16	0
1.79	0.11	0	1.17	0.41	0
1.15	0.18	0	1	0.24	0
1.72	0.5	0	0.84	0.15	0
1.1	0.09	1	0.98	0.34	0
1.46	0.78	0	0.97	0.24	0
0.7	0.02	1	1.01	0.2	0
1.65	0.13	0	0.93	0.45	0
1.85	0.34	0	1.01	0.24	0
1.32	0.24	0	1.01	0.24	0
1.42	0.28	0	0.97	0.25	0
1.1	0.14	1	1	0.24	0
0.11	0.02	1	0.87	0.16	1
0.3	0.02	1	0.93	0.23	0
2.04	5.33	0	1.07	0.33	0
		0	0.9	0.23	0
1.26	0.27	0	1.01	0.36	0
1.61	0.24	0	1.07	0.16	0
1.91	0.86	0	0.94	0.16	0
1.25	0.13	0	1.22	0.36	0
1.65	0.37	0	0.73	0.22	0
2.09	0.5	0	1.04	0.25	0
1.43	0.27	0	1.13	0.94	0
1.16	0.1	0	1.1	0.42	0
1.57	0.21	0	0.74	0.35	0
1.55	0.11	0	0.97	0.33	0
0.55	0.02	1	0.99	0.17	0
1.34	0.22	0	1.04	0.15	0
1.43	0.1	0	1.01	0.36	0

	2.15	0.34	0	0.89	0.28	0
	1.4	0.25	0	0.8	0.25	0
	1.36	0.22	0	1.09	0.24	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.81	0.3	1	0.81	0.23	0
	1.01	0.11	1	0.91	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.93	0.49	1	0.89	0.17	0
	1.15	0.93	0	0.93	0.21	0
	1.9	0.16	0	0.99	0.3	0
	1.23	0.36	1	0.99	0.28	0
	0.79	0.97	1	0.88	0.59	0
	0.58	0.11	1	1.04	0.19	0
	1.3	0.33	0	1.11	0.51	0
	0.82	0.07	1	0.9	0.16	0
	1.69	0.59	0	1.05	0.2	0
	0.94	0.21	1	0.92	0.25	0
	4.37	0.2	1	1.13	0.39	0
	0.63	0.37	1	1.23	0.25	0
	0.17	0.04	1	1.08	0.24	0
	1.25	0.19	0	1.02	0.26	0
	1.53	0.04	0	0.98	0.15	0
	1.63	0.59	0	0.97	0.17	0
n/a	n/a		0 n/a	n/a		0
	1.33	0.58	0	0.76	0.17	0
	1.72	0.47	0	0.91	0.39	0
	0.36	0.05	1	1	0.17	0
	0.82	0.09	1	0.94	0.25	0
	0.86	0.21	0	1.05	0.43	0
	0.45	0.03	1	0.9	0.28	0
	1.31	0.32	0	0.98	0.19	0
	1.28	0.1	1	1.13	0.26	0
	1.22	0.61	0	1.04	0.18	0
	1.37	0.39	1	1.07	0.31	0
	1.92	0.62	0	0.73	0.17	0
	0.94	0.03	1	1.01	0.09	0
			1	1.43	0.39	0
n/a	n/a		0 n/a	n/a		0
	0.85	0.22	1	1.05	0.29	0
	1.63	0.23	1	0.91	0.44	0
	0.81	0.12	1	0.93	0.14	0
	0.98	0.13	1	0.83	0.51	0
	2.17	0.22	0	1.02	0.27	0
	1.92	0.82	1	1.22	0.34	0
	1.02	0.41	0	1.01	0.24	0
	0.59	0.07	1	0.79	0.1	0
	4.01	0.53	1	1.26	0.21	0
	0.08	0.02	1	0.79	0.13	1
	0.74	0.12	1	1.46	0.33	1
	0.29	0.06	1	0.93	0.26	1
			1	1.21	0.2	0



n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
		1	1.05	0.18	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
0.98	0.18	1	0.88	0.21	0
1.58	0.43	0	0.83	0.22	0
1.9	0.34	0	0.92	0.23	0
0.33	0.07	1	0.84	0.28	1
2.28	0.51	0	0.96	0.16	0
1.74	0.06	0	0.82	0.23	0
0.7	0.05	1	1.37	0.22	0
1.54	0.47	0	0.88	0.17	0
0.31	0.07	1	0.78	0.4	1
1.11	0.41	0	1.12	0.46	0
1.79	0.26	1	1.16	0.24	0
1.68	0.39	0	1.06	0.15	0
1.57	0.44	0	1.09	0.13	0
1.57	0.16	1	3.03	0.72	0
2.4	0.48	0	0.83	0.31	0
1.72	0.64	0	0.91	0.11	0
1.13	0.08	0	1.04	0.09	0
1.84	0.38	0	1.04	0.21	0
1.48	0.38	0	0.93	0.35	0
1.26	0.61	0	0.95	0.15	0
1.88	0.29	0	0.88	0.35	0
1.63	0.5	0	1.11	0.37	0
1.35	0.3	0	1.06	0.19	0
1.54	0.35	0	1.01	0.13	0
1.7	0.27	0	1.35	0.44	0
1.31	0.42	0	0.75	0.17	0
0.4	0.11	1	0.68	0.28	1
1.42	0.01	1	1.16	0.29	0
1.95	0.31	0	0.92	0.29	0
1.61	0.26	0	0.98	0.21	0
1.69	0.32	1	0.94	0.27	0
1.68	0.31	0	0.85	0.26	0
1.72	0.15	1	0.9	0.16	0
1.38	0.56	0	0.9	0.19	0
1.77	0.55	0	0.9	0.12	0
2.31	0.44	0	0.92	0.17	0
1.32	0.38	0	0.93	0.27	0
1.16	0.09	1	0.98	0.52	0
0.97	0.06	0	1.11	0.41	0
2.04	0.4	0	1.13	0.21	0
2.21	0.09	0	0.92	0.21	0
		0	0.89	0.18	0
		0	0.88	0.29	0
n/a	n/a	0	n/a	n/a	0
1.11	0.17	1	2.28	0.85	0
1.15	0.27	0	0.82	0.24	0



	1.04	0.56	0	1.23	0.44	0
	1.58	0.19	0	0.92	0.19	0
n/a	n/a		0 n/a	n/a		0
	1.03	0.22	1	1.13	0.42	0
	1.03	0.04	1	0.88	0.25	0
			1	1.56	0.46	0
n/a	n/a		0 n/a	n/a		0
	0.39	0.05	1	1.07	0.22	0
	0.98	0.06	1	0.81	0.2	0
	0.37	0.05	1	1.07	0.3	0
	1.17	0.04	0	0.69	0.12	0
	1.52	0.21	0	0.8	0.19	0
	1.8	0.38	0	1.02	0.31	0
n/a	n/a		0 n/a	n/a		0
	0.9	0.44	0	0.84	0.26	0
	1.32	0.77	0 n/a	n/a		0
	2.03	0.34	0	0.81	0.13	0
n/a	n/a		0 n/a	n/a		0
	0.96	0.27	1	1.11	0.26	0
	1.99	0.91	0	0.98	0.23	0
	1.23	0.03	0	0.83	0.17	0
	1.42	0.13	0 n/a	n/a		0
	1.62	0.33	0	1.12	0.22	0
	1.28	0.38	0	0.91	0.47	0
	0.51	0.11	1	0.95	0.47	0
	1.68	0.11	0	0.86	0.2	0
	1.79	0.2	0	1.06	0.18	0
			0	0.94	0.13	0
	1.55	0.32	0	0.99	0.17	0
	0.35	0.18	1	1.57	0.36	1
	1.08	0.32	0	1.21	0.33	0
	1.59	0.14	0	0.81	0.55	0
	1.54	0.77	0	0.79	0.16	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.59	0.04	1	0.87	0.22	0
	1.71	0.33	0	0.81	0.13	0
	1.21	0.3	0	0.9	0.31	0
	2.01	0.16	0	0.87	0.38	0
	0.16	0.04	1	0.79	0.1	1
	0.97	0.1	1	1.2	0.36	0
	0.46	0.03	1	1.49	0.16	1
	0.34	0.05	1	0.78	0.14	0
n/a	n/a		0 n/a	n/a		0
	1.52	0.08	0	0.83	0.32	0
	1.72	0.12	0	1.16	0.13	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.64	0.33	0	1.02	0.31	0
	1.18	0.65	0	1.01	0.34	0
n/a	n/a		0 n/a	n/a		0
	1.27	0.02	1	1.14	0.1	0

	1.87	0.18	1	0.78	0.38	0
	1.37	0.14	0	0.8	0.41	0
	1.3	0.33	0	0.96	0.5	0
	1.42	0.04	0	0.93	0.2	0
	1.37	0.23	0	0.9	0.29	0
n/a	n/a		0 n/a	n/a		0
	1.17	0.19	0	0.9	0.35	0
	1.82	0.24	0	0.91	0.25	0
	1.32	0.65	0	1.1	0.2	0
	0.35	0.07	1	1.05	0.15	1
	1.41	0.26	1	1.36	0.39	0
n/a	n/a		0 n/a	n/a		0
	1.43	0.51	0	0.93	0.15	0
	1.15	0.09	0	0.97	0.21	0
	1.56	0.34	0	0.93	0.25	0
			1	0.83	0.2	0
	2.07	0.36	0	1.11	0.14	0
	1.51	0.35	1	0.85	0.2	0
	0.29	0.04	1	0.24	0.11	1
			0	0.8	0.36	0
	1.02	0.13	0	1.04	0.27	0
	1	0.03	0	0.92	0.13	0
	0.63	0.05	1	0.94	0.33	0
	0.32	0.06	1	0.73	0.1	1
	1.78	0.19	0	0.85	0.34	0
	1.61	0.4	0	1.05	0.47	0
	1.35	0.19	0	1.06	0.19	0
	1.75	0.32	0	1.03	0.3	0
	1.2	0.14	0	0.9	0.37	0
	1.29	0.12	0	0.87	0.15	0
	0.85	0.26	1	0.98	0.12	0
	0.35	0.17	1	0.8	0.21	0
	0.7	0.07	1	0.99	0.17	0
	1.42	2	0	0.87	0.29	0
	1.49	0.47	0	1.08	0.18	0
	0.04	0.01	1	0.76	0.11	1
	1.46	0.47	0	1.03	0.22	0
	1.92	0.37	0	0.88	0.3	0
			1	0.79	0.15	1
	1.3	0.25	0	0.83	0.18	0
			1	1.07	0.28	0
	1.46	0.59	0	0.95	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.71	0.28	0	0.87	0.64	0
	1.26	0.27	0	0.97	0.21	0
	1.37	0.33	1	1.18	0.27	0
	1.1	0.12	0	0.98	0.32	0
	1.32	0.49	0	0.9	0.14	0
	0.98	0.74	0	1.09	0.29	0
	1.81	0.45	0	0.95	0.36	0
n/a	n/a		0 n/a	n/a		0
	1.18	0.46	1	1.03	0.2	0

0.95	0.14	1	0.88	0.21	0
1.65	0.2	0	1.07	0.2	0
1.31	0.12	0	0.88	0.27	0
1.47	0.2	0	0.79	0.45	0
1.25	0.16	0	0.98	0.21	0
1.49	0.19	0	0.92	0.2	0
0.55	0.05	1	1.07	0.25	0
0.94	0.13	1	0.98	0.1	0
1.32	0.31	0	1.04	0.28	0
1.2	0.09	0	0.97	0.22	0
1.4	0.19	0	0.94	0.36	0
1.56	0.05	0	0.91	0.16	0
1.15	0.21	0	0.87	0.51	0
1.44	0.06	0	0.89	0.3	0
1.26	1.1	0	0.93	0.37	0
1.11	0.11	1	0.95	0.21	0
1.03	0.09	0	0.96	0.23	0
0.63	0.49	1	0.98	0.23	0
1.26	0.21	0	1.07	0.14	0
1.66	0.1	1	1.5	0.28	0
		0	1.18	0.4	0
1.94	0.3	0	0.99	1.47	0
1.85	0.46	0	0.78	0.15	0
0.7	0.08	1	1	0.21	0
1.35	0.1	0	0.92	0.32	0
		0	1.14	0.3	0
1.19	0.15	0	1.12	0.24	0
0.87	0.24	0	1.11	0.18	0
1.8	0.41	0	0.97	0.3	0
		0	1.1	0.57	0
1.48	0.51	0	0.85	0.28	0
1.58	0.09	0	1.1	0.32	0
1.66	0.32	0 n/a	n/a		0
1.67	0.45	0	0.95	0.15	0
1.9	0.15	1	1.51	0.38	0
1.41	0.54	0	0.97	0.18	0
1.72	0.14	0	1.03	0.41	0
1.61	0.16	0	1.11	0.26	0
		0	1.09	0.27	0
0.48	0.09	1	0.99	0.34	0
9.51	0.75	1	1.16	0.5	0
1.07	0.24	0	0.99	0.18	0
1.12	0.7	0	0.89	0.21	0
		1	1.1	0.21	0
1.52	0.17	1	1.95	0.92	0
1.27	0.11	0	1.15	0.44	0
1	0.11	1	1.69	0.69	0
0.91	0.09	0	1.01	0.23	0
		1	0.18	0.08	1
0.37	0.04	1	1.05	0.16	0
0.58	0.16	1	0.91	0.19	0
1.23	0.27	0	1.02	0.63	0

	1.28	0.3	0	0.99	0.19	0
	1.11	0.78	0	0.9	0.27	0
	1.82	0.38	0	0.9	0.18	0
	1.19	0.14	0	0.88	0.4	0
	1.9	0.18	0	1.01	0.2	0
	0.77	0.22	1	1.56	0.3	0
	1.33	0.06	1	0.76	0.22	0
	1.23	0.28	0	1.01	0.24	0
	0.77	0.1	1	0.85	0.23	0
	1.16	0.22	1	0.97	0.15	0
	1.63	0.17	0	1.3	0.28	0
	0.18	0.05	1	0.96	0.17	1
	1.37	0.18	0	0.87	0.34	0
	1.04	0.28	0	1.04	0.33	0
	1.13	0.15	0	1.1	0.5	0
	0.96	0.27	1	0.85	0.17	0
	1.38	0.23	0	0.9	0.14	0
	1.15	0.26	0	0.89	0.29	0
	1.32	0.1	0	1.11	0.41	0
	1.58	0.68	0	0.94	0.14	0
	1.49	0.17	0	1.14	0.27	0
			1	1.12	0.34	0
n/a	n/a		0 n/a	n/a		0
	1.82	0.36	0	0.95	0.17	0
	0.71	0.05	1	0.94	0.22	0
	1.65	0.26	0	0.88	0.21	0
	1.02	0.18	0	1.18	0.29	0
	1.08	0.26	0	0.89	0.33	0
n/a	n/a		0 n/a	n/a		0
	0.99	0.49	0	1.01	0.52	0
n/a	n/a		0 n/a	n/a		0
	1.19	0.2	0	1.2	0.17	0
	0.18	0.02	1	0.76	0.21	1
	1.81	0.5	0	0.84	0.2	0
	0.63	0.25	1	1.02	0.38	0
	1.12	0.09	0	1.03	0.18	0
	1.08	0.18	0	1.1	0.36	0
	0.97	0.83	0	0.89	0.46	0
	1.07	0.06	0	1.04	0.43	0
	0.94	0.47	0	0.96	0.21	0
n/a	n/a		0 n/a	n/a		0
	1.26	0.16	0	0.97	0.28	0
			1	0.99	0.17	0
	0.08	0.05	1	0.72	0.18	1
	0.29	0.03	1	0.94	0.1	0
	0.34	0.1	1	0.68	0.16	1
	0.93	0.14	1	1.19	0.3	0
	0.8	0.14	1	1.4	0.25	0
	4.59	0.8	1	0.94	0.25	0
	1.3	0.14	0	0.89	0.18	0
	1.51	0.5	1	0.97	0.2	0
	1.31	0.63	0	1.05	0.56	0

	1.02	0.56	0	0.88	0.28	0
n/a	n/a		0 n/a	n/a		0
	1.34	0.8	0	1.04	0.38	0
	1.57	0.27	0	0.98	0.19	0
	0.33	0.01	1	0.83	0.2	1
	0.55	0.08	1	0.78	0.28	0
	1.78	0.14	0	0.89	0.33	0
	1.28	0.26	0	1.13	0.21	0
	1.42	0.22	0	0.83	0.16	0
	1.31	0.18	0	0.91	0.13	0
	1.59	0.42	0	1.03	0.24	0
	1.77	0.45	1	1.34	0.12	0
	0.84	0.25	1	0.9	0.17	0
	1.84	0.2	0	0.92	0.31	0
	0.86	0.35	1	0.69	0.11	0
	0.62	0.11	1	1.09	0.26	0
	1.14	0.31	1	1.15	0.25	0
	2.53	0.3	0	0.95	0.25	0
	0.98	0.1	0	0.69	0.18	0
	1.31	0.38	0	1.12	0.26	0
	1.72	0.61	0	1.07	1.28	0
	1.72	0.48	0	0.95	0.14	0
	0.32	0.13	1	0.88	0.2	0
	1.74	0.36	0	0.8	0.21	0
	1.19	0.12	1	1.26	0.26	0
	0.4	0.03	1	2.27	0.3	1
	1.46	0.08	1	1.28	0.36	0
	1.39	0.48	0	1.76	1	0
	1.57	0.04	0	1.16	0.28	0
	1.42	0.11	0 n/a	n/a		0
	0.07	0.01	1	0.83	0.26	1
	0.11	0.02	1	0.7	0.09	1
	1.45	0.34	0	0.96	0.38	0
	8.3	1.52	1	1.7	0.55	0
	1.47	0.13	0	1.05	0.2	0
	1.58	0.38	0	0.85	0.19	0
	1.55	0.2	0	0.85	0.37	0
	1.6	14.54	0	1.05	0.3	0
	2.35	0.79	0 n/a	n/a		0
	0.34	0.08	1	1.02	0.16	1
	1.38	0.24	0	0.9	0.21	0
			1	1.23	0.18	1
	2.48	0.47	0	1.14	0.53	0
	1.45	0.63	0	0.8	0.22	0
	1.75	0.27	0	0.77	0.19	0
	0.94	0.29	1	0.78	0.08	0
	1.77	0.09	0	0.88	0.16	0
			0	1	0.31	0
	1	0.2	0	1.04	0.3	0
	1.19	0.17	0	1.04	0.36	0
	1.78	0.48	0	1.2	0.37	0
	1.32	0.13	0	0.85	0.23	0



	1.17	0.28	0	0.74	0.12	0
	1.4	0.22	0	0.76	0.24	0
	0.92	0.18	0	0.95	0.21	0
	18.48	5.56	1	12.98	4.17	1
	1.77	0.42	0	1.26	0.23	0
	1.51	0.17	0	1.01	0.23	0
	1.4	0.27	0	1.04	0.45	0
	2.55	4.05	0	1.09	0.08	0
	1.58	0.52	0	0.91	0.25	0
	1	0.29	0	0.91	0.14	0
	1.2	0.08	0	1.07	0.44	0
	2.8	0.4	1	0.87	0.18	0
n/a	n/a		0	n/a	n/a	0
	1.02	0.34	0	0.73	0.16	0
	1.52	0.23	0	0.92	0.22	0
n/a	n/a		0	n/a	n/a	0
	1.13	0.26	0	0.76	0.31	0
	1.1	0.07	1	0.91	0.25	0
	0.6	0.16	1	0.73	0.14	0
	0.4	0.04	1	0.84	0.34	0
	1.21	0.19	0	0.99	0.18	0
n/a	n/a		0	n/a	n/a	0
	1.88	0.21	0	1.08	0.22	0
	1.89	0.29	0	1.1	0.23	0
	0.07	0.01	1	0.83	0.7	1
	1.4	0.07	0	1.04	0.51	0
	1.44	0.33	0	1.08	0.35	0
n/a	n/a		0	n/a	n/a	0
	1.21	0.33	0	1.09	0.14	0
	0.82	0.11	1	0.82	1.56	0
	1.51	0.25	1	0.74	0.11	0
	1.07	0.24	0	0.9	0.15	0
	2.13	0.41	0	1.13	0.19	0
n/a	n/a		0	n/a	n/a	0
	1.48	0.39	0	0.9	0.44	0
	0.75	0.44	1	0.96	0.2	0
	2.07	0.14	0	0.97	0.25	0
	1.74	0.43	0	0.98	0.35	0
			1	1.36	0.3	0
	2.41	0.16	0	1.2	0.33	0
	2.3	0.28	0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.95	0.51	0	1.05	0.23	0
	2.01	0.32	0	1	0.24	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.2	0.19	1	0.89	0.29	0
	1	0.14	1	0.9	0.43	0
n/a	n/a		0	n/a	n/a	0
	0.51	0.12	1	0.96	0.41	0

	1.08	0.28	0	0.89	0.3	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.74	0.6	0	1.04	0.36	0
	1.8	0.37	0	0.97	0.38	0
	1.01	0.87	0	1.25	0.27	0
			1	1.46	0.54	0
	2.09	0.21	0	1.05	0.52	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	2	0.35	0	1.07	0.29	0
	1.31	0.46	0	0.97	0.3	0
	0.45	0.16	1	0.81	0.15	0
	1.32	0.45	0	0.84	0.31	0
	1.54	0.14	0	1.23	0.23	0
	1.58	0.38	0	0.97	0.26	0
			1	0.67	0.15	0
	0.96	0.06	1	1.69	0.58	0
	2	0.4	0	0.87	0.18	0
	1.75	0.24	0	1	0.18	0
	1.72	0.16	0	0.81	0.46	0
	1.36	0.15	0	0.87	0.15	0
	1.47	0.28	0	0.84	0.24	0
	1.38	0.96	0	1.09	0.41	0
	1.93	0.69	0	0.98	0.27	0
	1.59	0.22	0	0.98	0.26	0
	1.66	19.42	0	0.92	0.12	0
	1.52	0.35	0	1.08	0.34	0
	1.23	0.11	0	0.96	0.23	0
	1.47	0.13	0	0.81	0.28	0
	0.1	0.03	1	0.67	0.5	1
	1.82	0.41	0	0.86	0.26	0
	2.38	0.35	0	0.97	0.38	0
			1	0.75	0.63	1
	2.26	0.37	0	0.86	0.16	0
	1.52	0.24	0	0.99	0.13	0
	1.22	0.17	0	1.11	0.24	0
	1.54	0.29	0	0.78	0.32	0
n/a	n/a		0	n/a	n/a	0
	1.28	0.16	1	0.96	0.25	0
	1.49	0.27	0	0.98	0.2	0
	3.78	1.89	0	0.79	0.52	0
	1.4	0.36	0	0.99	0.21	0
	1.94	0.25	0	1.56	0.54	0
	0.36	0.05	1	0.9	0.4	0
	1.06	0.07	0	0.98	0.41	0
	1.14	0.39	0	0.88	0.35	0
	0.78	0.05	1	0.9	0.13	0
	1.6	0.27	0	0.92	0.14	0
	0.53	0.16	1	0.87	0.17	0
	2	0.39	0	1	0.19	0
	1.6	0.34	1	0.75	0.3	0



n/a		0	n/a		0
n/a	n/a	0	n/a	n/a	0
	1.55	0.49	0	0.96	0.18
	0.78	0.07	1	1.02	0.25
	1.64	0.53	0	1.03	0.2
	1.37	0.47	0	0.87	0.27
	1.9	0.23	0	1.02	0.11
			0	1	0.32
	0.65	0.21	1	1.62	0.5
	0.88	0.22	1	0.97	0.22
	0.79	1.18	1	1.2	0.28
			0	1.21	0.11
	1.44	0.28	0	1.5	0.44
	1.5	0.17	0	0.86	0.27
	1.33	0.32	0	0.91	0.14
	1.08	0.06	1	1.01	0.18
	1.48	0.5	0	0.92	0.17
	1.19	0.2	0	1	0.27
	1.12	1.31	0	0.82	0.55
	0.45	0.14	1	0.86	0.66
	1.34	0.13	0	1.1	0.16
	0.1	0.02	1	1.09	0.45
	1.66	0.6	0	0.95	0.12
	1.05	0.24	1	0.88	0.21
	2.31	0.37	0	0.89	0.44
	0.64	0.2	1	1.06	0.29
	1.05	0.22	1	1.08	0.43
	1.24	0.24	1	1.18	0.32
	1.51	0.12	0	0.98	0.54
	1.19	0.2	0	1.04	0.24
	1.42	0.21	0	1.03	0.14
	2.12	0.75	0	0.94	0.36
	1.93	0.45	0	0.89	0.05
	1.93	0.61	0	0.75	0.12
	1.96	0.46	0	0.84	0.25
	1.29	0.33	0	1.2	0.33
			0	1.02	0.31
	1.99	0.92	0	0.93	0.35
	1.11	0.05	1	1.13	0.11
	0.37	0.13	1	0.91	0.38
	1.53	0.08	0	0.8	0.21
			0	0.89	0.2
	1.49	0.26	0	0.73	0.38
	0.32	0.03	1	0.93	0.47
	1.83	0.41	0	1.31	0.35
	0.91	0.19	1	1.17	0.18
	3.39	0.89	1	1.01	0.22
	1.5	0.22	0	1.1	0.44
	1.62	0.34	0	1.03	0.37
	0.7	0.09	1	0.89	0.6
	1.27	0.14	1	1.36	0.32
	0.54	0.07	1	0.97	0.35

	0.25	0.04	1	0.89	0.81	1
	1.23	0.62	0	0.92	0.24	0
			0	0.86	0.24	0
	2.02	0.21	0	0.88	0.22	0
	0.26	0.04	1	0.98	0.24	0
	0.45	0.12	1	1.18	0.31	1
	1.57	0.15	0	0.87	0.19	0
	0.91	0.16	0	0.8	0.24	0
	0.94	0.3	1	1.05	0.14	0
	1.38	0.18	0	1.12	0.2	0
	10.58	3.32	1	1.33	0.39	0
	0.08	0.02	1	0.99	0.23	1
	0.72	0.01	0	1.11	0.36	0
			0	1.03	0.75	0
	1.52	0.63	0	1.3	0.47	0
	1.63	0.16	0	1	0.37	0
	1.26	0.14	1	0.84	0.16	0
	1.6	0.42	0	0.82	0.23	0
n/a	n/a		0 n/a	n/a		0
	2.49	0.38	0	1.06	0.17	0
	1.74	0.55	1	1.32	0.26	0
	1.17	0.57	0	0.74	0.2	0
	1.75	0.36	0	0.95	0.13	0
	2.14	0.57	0	1.14	0.41	0
	1.56	0.35	0	0.92	0.19	0
			0	1.1	0.07	0
	1.1	0.18	1	0.99	0.12	0
	2.49	0.38	0	0.94	0.35	0
	1.81	0.12	0	1.23	0.3	0
	0.69	0.12	1	0.98	0.28	0
			0	1.01	0.26	0
	1.81	0.66	0	1.05	0.37	0
	1.43	0.33	0	0.91	0.21	0
	1.13	0.11	1	1.15	0.25	0
	2.35	0.36	1	1.26	0.25	0
n/a	n/a		0 n/a	n/a		0
			1	1	0.22	0
	0.93	0.04	1	1.44	0.2	0
	1.92	0.42	0	1.02	0.14	0
	1.98	0.33	0	0.74	0.22	0
	1.66	0.5	0	0.82	0.33	0
	1.69	0.23	0	0.89	0.18	0
n/a	n/a		0 n/a	n/a		0
	1.31	0.16	1	0.89	0.16	0
	1.37	0.29	0	0.87	0.14	0
	2.06	0.47	0	1.41	0.52	0
	1.94	0.77	0	0.99	0.15	0
	1.91	0.71	0	0.85	0.18	0
	1.04	0.26	0	1.35	0.24	0
	1.52	0.26	0	0.99	0.34	0
	1.41	0.15	0	1.05	0.2	0
	1.25	0.3	0	0.94	0.3	0

1.87	0.73	0	0.9	0.12	0
1.36	0.14	0	1.05	0.18	0
1.62	0.44	0	0.87	0.3	0
2.17	0.27	0	0.8	0.21	0
1.4	0.25	0	0.95	0.31	0
1.5	0.28	0	0.88	0.21	0
		0	0.91	0.69	0
2.35	1.2	0	0.92	0.2	0
2.1	0.83	0	0.81	0.38	0
1.39	0.63	0	0.9	0.16	0
0.12	0.01	1	0.63	0.32	1
1.72	0.18	0	1.18	0.36	0
		1	0.98	0.42	0
1.66	0.67	0	1.19	1.42	0
0.97	0.13	0	1.08	0.24	0
1.42	0.43	0	0.94	0.09	0
0.77	0.09	1	1.06	0.27	0
1.89	0.25	0	0.88	0.09	0
1.64	0.43	0	0.87	0.4	0
		1	1	0.22	0
1.1	0.18	1	0.77	0.37	0
1.48	0.07	0	1.01	0.26	0
1.13	0.15	1	0.96	0.17	0
		0	0.96	0.14	0
1.44	0.38	1	0.97	0.3	0
1.82	0.62	0	0.94	0.28	0
1.4	0.03	0	1	0.17	0
0.95	0.09	1	0.99	0.5	0
1.25	0.77	0	0.95	0.27	0
1.34	0.42	0	1.03	0.2	0
1.96	1.01	0	1.01	0.29	0
1.7	0.45	0	1.19	0.51	0
n/a	n/a	0 n/a	n/a	n/a	0
1.46	0.35	0	1.17	1.58	0
n/a	n/a	0 n/a	n/a	n/a	0
n/a	n/a	0 n/a	n/a	n/a	0
n/a	n/a	0 n/a	n/a	n/a	0
1.53	1.23	0	1.18	0.4	0
1	0.29	1	1.16	0.19	0
0.78	0.14	1	0.93	0.13	0
n/a	n/a	0 n/a	n/a	n/a	0
1.4	0.03	0	0.89	4.71	0
n/a	n/a	0 n/a	n/a	n/a	0
1.06	0.17	1	1.06	0.88	0
n/a	n/a	0 n/a	n/a	n/a	0
0.34	0.09	1	0.62	0.46	1
n/a	n/a	0 n/a	n/a	n/a	0
2.22	0.88	0	1.06	0.35	0
15.07	5.47	1	2.49	0.76	0
2.27	0.64	0	1.15	0.29	0
		0	1.25	0.22	0
0.73	0.16	1	1.93	0.39	0

	1.58	0.2	0	0.77	0.12	0
	1.61	0.23	0	0.99	0.2	0
	1.88	0.3	0	1.03	0.14	0
	0.68	0.11	1	0.83	0.24	0
	1.25	1.43	0	0.95	0.19	0
	1.43	0.83	0	0.79	0.27	0
	1.38	0.26	0	0.91	0.32	0
	1.78	0.47	0	0.91	0.16	0
	1.44	0.21	0	1.22	0.35	0
	1.56	0.69	0	0.85	0.32	0
	0.25	0.05	1	0.61	0.19	1
	1.58	0.17	1	0.81	0.26	0
	1.46	0.19	0	0.95	0.39	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	3.36	0.54	1	0.97	0.16	0
	0.43	0.05	1	1.09	0.59	1
n/a	n/a		0 n/a	n/a		0
	1.47	1.45	0	1.17	0.24	0
	2.88	0.53	0	0.97	0.57	0
	1.61	0.17	0	1.04	0.14	0
	0.78	0.1	1	1.06	0.74	1
	1.6	0.18	0	1.04	0.43	0
	1.71	0.48	0	0.86	0.12	0
	1.91	0.65	0	1.19	0.32	0
	1.72	0.37	0	0.92	0.29	0
	0.19	0.2	1	0.6	0.36	1
	1.25	0.35	0	1.08	0.17	0
	2.02	0.46	0	0.86	0.32	0
	1.6	0.61	0	1.03	0.28	0
	1.59	0.22	0	1.76	0.51	0
	1.65	0.11	0	0.84	0.18	0
	1.94	0.43	0	0.84	0.3	0
	1.12	0.44	0	0.99	1.24	0
	2.32	0.45	0	0.88	0.19	0
	1.13	0.1	0	0.78	0.25	0
	1.62	0.3	0	1.15	0.36	0
	1.92	0.11	0	1.03	0.21	0
	1.51	0.67	0	1.1	0.35	0

	1.67	0.12	0	0.95	0.2	0
	2.55	0.39	0	0.97	0.14	0
	1.46	0.13	0	1.05	0.13	0
	1.82	0.22	0	0.99	0.26	0
	2.27	0.78	0	0.84	0.13	0
	1.17	0.93	0	0.9	0.4	0
	2.17	0.69	0	1.06	0.26	0
	1.86	0.47	0	0.8	0.27	0
	1.65	0.37	0	0.92	0.14	0
	1.27	0.4	0	0.92	0.17	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.44	1.01	0	0.82	0.18	0
	1.3	0.21	0	0.85	0.16	0
	2.29	0.32	0	0.88	0.19	0
	1.38	0.65	0	0.88	0.21	0
	1.37	0.09	1	0.9	0.53	0
	1.59	0.23	0	0.86	0.14	0
	1.51	0.35	0	0.95	0.19	0
	2.73	0.68	0	0.86	0.28	0
	1.87	0.31	0	0.85	0.25	0
	1.32	0.3	0	0.82	0.14	0
	0.7	0.07	1	0.85	0.27	0
			0	0.88	0.19	0
	2.33	0.76	0	0.98	0.25	0
			0	0.87	0.09	0
	1.76	0.48	0	1.44	0.36	0
	0.45	0.07	1	0.9	0.19	0
	1.6	0.32	0	1.09	0.12	0
	1.69	0.12	1	1.02	0.1	0
n/a	n/a		0	n/a	n/a	0
	1.56	0.26	1	1.16	0.31	0
	2.41	1.05	0	0.8	0.17	0
	1.4	0.97	1	0.78	0.1	0
	1.38	0.14	1	1.26	0.33	0
	1.31	0.14	0	0.81	0.88	0
	1.92	0.33	0	0.88	0.14	0
	0.32	0.06	1	1.08	0.25	0
	1.67	0.24	0	0.9	0.06	0
n/a	n/a		0	n/a	n/a	0
	1.59	0.72	0	0.84	0.21	0
			1	1.15	0.3	0
	1.65	0.27	0	0.77	0.28	0
	1.71	0.38	0	1.03	0.3	0
n/a	n/a		0	n/a	n/a	0
	1.11	0.36	0	1.2	0.22	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.25	0.08	0	0.91	2.99	0

		0	1.08	0.22	0
1.71	0.56	0	0.81	0.13	0
2.16	0.2	0 n/a	n/a		0
1.55	0.2	0	1.13	0.3	0
		0	0.98	0.28	0
1.49	0.27	0	1.02	0.27	0
2.44	0.59	0	0.72	0.12	0
1.52	0.42	0	0.85	0.27	0
1.56	0.59	0	0.91	2.11	0
0.25	0.03	1	1.06	0.47	1
2.01	0.44	0	0.97	0.18	0
2.2	0.29	0	0.76	0.18	0
1.35	0.48	0	1	0.46	0
2.17	0.12	0	1.14	0.37	0
2.32	0.83	0	0.92	0.12	0
2.19	0.14	0	0.93	0.14	0
2.42	0.62	0	0.97	0.58	0
0.95	0.2	1	0.87	0.14	0
0.42	0	1	1.12	0.29	0
1.59	0.44	0	0.92	0.24	0
1.31	1.03	0	1.07	0.27	0
0.74	0.07	1	0.67	0.17	0
1.12	0.58	0	0.77	0.21	0
1.51	0.36	0	0.8	0.61	0
n/a	n/a	0 n/a	n/a		0
1.73	0.31	0	1.08	0.42	0
1.93	0.22	0	0.89	0.21	0
2.18	0.07	0	0.7	0.27	0
2.4	0.44	0	0.82	0.4	0
4.33	2.95	1	5	2.07	1
6.61	0.24	1	2.61	0.96	0
1.74	0.24	1	0.85	0.32	0
		0	1.07	0.34	0
n/a	n/a	0 n/a	n/a		0
1.83	0.37	0	0.92	0.17	0
		1	1.05	0.23	0
n/a	n/a	0 n/a	n/a		0
0.67	0.07	1	1.02	0.23	0
n/a	n/a	0 n/a	n/a		0
n/a	n/a	0 n/a	n/a		0
1.63	0.25	0	1.01	0.24	0
1.14	0.37	0	0.93	0.19	0
		0	1.16	0.34	0
1.51	0.35	0	0.91	0.34	0
2.14	0.61	0	0.83	0.1	0
2.01	0.81	0	0.83	0.26	0
1.49	0.27	0	1.22	0.25	0
		0	1.38	0.66	0
1.89	0.4	0	1.18	0.42	0
1.81	0.47	0	1.08	0.23	0
1.58	0.36	0	0.92	0.28	0
1.33	0.32	0	0.96	0.25	0

1.94	0.58	0	0.76	0.16	0
1.46	0.13	1	1.14	0.43	0
1.34	0.52	0	1	0.15	0
1.79	0.41	0	0.81	0.36	0
1.33	0.13	1	0.93	0.38	0
1.41	0.04	1	0.9	0.1	0
1.02	0.13	1	1.04	0.24	0
1.82	0.34	0	0.99	0.24	0
2.26	0.58	0	0.84	0.36	0
1.57	0.2	0	0.94	0.16	0
2.01	0.76	0	0.85	0.62	0
2.23	0.19	0	0.83	0.95	0
1.61	0.37	1	1.14	0.35	0
1.34	0.6	1	0.84	0.15	0
1.12	0.15	1	0.95	0.25	0
1.65	0.65	0	0.78	0.64	0
2.07	0.37	0	0.98	0.39	0
1.9	0.45	0	0.99	0.22	0
1.79	0.2	0	0.87	0.37	0
1.63	0.33	0	1.25	0.27	0
2	0.29	0	0.86	0.27	0
1.63	0.26	0	0.93	0.18	0
n/a	n/a	0	n/a	n/a	0
2.01	0.34	1	1.63	0.57	0
1.21	0.58	0	0.88	0.14	0
1.29	0.17	0	0.91	0.32	0
1.66	0.48	0	0.99	0.31	0
1.91	0.46	0	1.05	0.29	0
0.79	0.22	1	0.92	0.25	0
0.65	0.13	1	0.86	0.27	0
1.7	0.28	0	1.92	0.96	0
1.83	0.13	0	0.83	0.21	0
0.75	0.08	1	0.89	0.27	0
0.87	0.19	1	0.93	0.34	0
1.83	0.23	0	1.02	0.29	0
1.41	0.9	0	0.85	0.12	0
1.59	0.31	0	0.71	0.14	0
1.74	0.53	0	0.95	0.26	0
0.58	0.1	1	0.96	0.27	0
1.6	62.18	0	0.86	0.18	0
1.21	0.11	0	0.78	0.16	0
1.38	0.65	0	1.04	0.19	0
2.03	0.36	0	0.85	0.29	0
1.69	0.48	0	0.87	0.19	0
0.47	0.07	1	0.68	0.36	0
1.53	0.29	0	0.95	0.17	0
1.46	0.26	0	0.98	0.35	0
1.14	0.13	1	1.19	0.43	0
1.59	0.38	0	1.07	0.3	0
		1	0.92	0.35	0
1.83	0.71	0	1.07	0.39	0
0.09	0.02	1	0.81	0.35	1

1.18	0.09	1	1.05	0.12	0
1.82	0.49	0	0.93	0.34	0
1.69	0.26	0	1.09	0.19	0
		0	0.96	0.23	0
1.68	0.35	0	1.06	0.39	0
1.31	0.62	0	0.96	0.19	0
0.77	0.04	1	1.1	0.21	0
1.68	0.28	0	0.87	0.23	0
1.32	0.44	0	0.84	0.2	0
1.63	0.39	0	1.07	0.16	0
0.64	0.04	1	0.9	0.18	0
1.09	0.16	1	0.86	0.23	0
1.09	0.04	0	0.91	0.23	0
1.38	0.59	0	0.98	0.25	0
1.36	0.6	0	0.93	0.36	0
1.28	0.35	0	1.02	0.17	0
1.57	0.16	0	1.12	0.23	0
1.8	0.35	0	1.07	0.25	0
0.48	0.06	1	0.66	0.21	0
1.54	0.58	0	1	0.43	0
0.27	0.08	1	0.73	0.27	0
0.77	0.07	1	1.06	0.21	0
1.27	0.27	0	1.07	0.1	0
0.52	0.05	1	0.83	0.19	0
1.54	0.37	1	0.81	0.2	0
1.2	0.27	1	1.17	0.27	0
1.31	0.48	0	0.86	0.19	0
2.38	0.31	1	2.45	0.66	1
0.86	0.66	1	0.84	0.2	0
1.49	0.65	0	0.93	0.15	0
		0	0.87	0.31	0
1.32	0.24	0	1.08	0.14	0
1.22	0.25	0	0.9	0.17	0
n/a	n/a	0	n/a	n/a	0
	2	0	1.04	0.25	0
n/a	n/a	0	n/a	n/a	0
1.7	0.4	0	0.9	0.3	0
2.84	1.01	0	0.8	0.34	0
0.97	0.21	0	0.86	0.33	0
2.02	0.27	0	0.88	0.27	0
0.38	0.09	1	0.78	0.54	1
2.04	0.75	0	1.74	0.93	0
1.48	0.5	0	0.84	0.12	0
1.67	0.8	0	0.89	0.11	0
1.13	0.14	1	0.95	0.3	0
1.83	0.81	0	0.86	0.42	0
1.08	0.22	1	0.99	0.29	0
1.04	0.19	1	0.9	0.14	0
1.34	0.68	0	0.74	0.2	0
0.83	0.52	1	1.03	0.19	0
1.74	0.92	0	1.2	0.3	0
n/a	n/a	0	n/a	n/a	0



	2.07	0.19	1	2.89	0.7	0
	1.83	0.63	0	0.86	0.35	0
	1.99	0.1	1	1.42	0.37	0
	1.16	0.09	1	1.02	0.79	0
n/a	n/a		0	n/a	n/a	0
	0.27	0.19	1	0.8	0.38	1
	1.75	0.75	0	0.96	0.22	0
	0.51	0.69	1	1.04	0.53	0
	1.4	0.38	0	0.98	0.17	0
	1.38	0.27	0	1.02	0.42	0
n/a	n/a		0	n/a	n/a	0
	1.39	0.49	0	1.03	0.13	0
	1.96	0.77	0	0.92	0.36	0
			0	1.01	0.55	0
	1.37	0.26	0	0.92	0.33	0
	1.3	0.22	0	0.99	0.26	0
	1	0.07	1	0.85	0.38	0
	1.44	0.29	1	1.23	0.38	0
	3.74	2.15	1	1.08	0.32	0
	1.59	0.6	0	0.77	0.18	0
	2.28	0.6	0	0.76	0.42	0
	1.36	0.33	1	0.92	0.25	0
	1.95	0.82	0	0.85	0.25	0
n/a	n/a		0	n/a	n/a	0
	0.99	0.11	1	1.1	0.21	0
	1.95	0.47	0	0.97	0.42	0
	0.2	0.18	1	0.95	0.42	1
	0.64	0.28	1	1.35	0.37	0
	1.3	0.62	0	0.9	0.11	0
	0.99	0.11	1	1.42	0.32	0
	2.08	0.85	0	1.18	0.21	0
	1.05	0.21	1	0.79	0.18	0
	2.05	0.3	0	1.01	0.15	0
	0.98	0.14	1	1.12	0.39	0
	1.78	0.96	0	0.98	0.2	0
	1.19	0.47	1	0.98	0.26	0
n/a	n/a		0	n/a	n/a	0
	2.34	0.49	0	0.86	0.19	0
	1.15	0.37	1	0.84	0.21	0
	1.43	0.88	1	1.04	0.16	0
	2.01	0.32	1	0.87	0.28	0
	1.37	0.31	1	2.4	0.87	0
	1.68	0.8	0	0.83	0.19	0
	1.89	0.85	0	0.93	0.24	0
	1.51	0.41	0	1.01	0.27	0
	1.23	0.26	1	0.76	0.18	0
			1	1.01	0.21	0
	1.99	0.27	0	1.23	0.16	0
	1.29	0.52	1	0.99	0.1	0
	1.66	0.92	0	0.87	0.25	0
	1.54	0.36	0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0

	1.36	0.24	1	1.01	0.46	1
			0	1.29	0.29	0
n/a	n/a		0 n/a	n/a		0
	1.28	0.85	0	0.98	0.11	0
	2.07	0.92	0	1.02	0.21	0
	1.36	0.35	0	1.39	0.28	0
	1.6	5.69	0	0.94	8.5	0
	2.38	0.26	0	1.04	0.6	0
	21.14	7.46	1	2.87	0.72	0
	1.38	0.19	1	0.88	0.29	0
	0.94	0.17	1	0.86	0.56	1
	1.2	0.35	1	2.77	0.53	0
	0.34	0.1	1	1.31	0.5	1
	1.4	0.1	0	1.01	0.22	0
			0	0.79	0.11	0
	1.68	0.27	0	0.77	0.26	0
	1.1	0.08	1	0.79	0.14	0
	1.06	0.15	1	1.16	0.44	0
	2.08	0.25	0	0.93	0.18	0
n/a	n/a		0 n/a	n/a		0
	1.43	0.42	0	1.14	0.26	0
	1.8	0.37	0	1.46	0.45	0
	1.56	0.35	0	1	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.38	0.22	1	1.52	1.15	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	1.71	0.15	0	0.92	0.38	0
n/a	n/a		0 n/a	n/a		0
	1.13	0.55	0	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.5	0.36	1	0.95	0.21	0
	1.88	0.96	0	0.97	0.18	0
	1.47	0.64	0	0.93	0.12	0
	1.24	0.94	0	1.74	0.22	0
	1.52	1.46	1	0.93	0.19	0
	1.31	0.3	0	0.94	0.2	0
	1.62	0.79	0	0.87	0.18	0
	1.97	0.29	0	1.02	0.17	0
	2.16	0.24	1	3.07	0.65	1
	2.06	0.67	0	1	0.14	0

	3	1.5	0	0.97	0.19	0
	1.18	0.36	0	0.9	0.19	0
	1.78	0.9	0	1.15	0.29	0
	1.62	0.36	0	0.92	0.28	0
	0.98	0.18	1	0.97	0.2	0
	1.5	0.41	0	0.91	0.11	0
	1.88	0.54	0	1.06	0.17	0
	1.45	0.48	0	1.03	0.23	0
	1.71	0.67	0	0.82	0.21	0
	1.25	0.29	1	1.15	0.22	0
	1.43	0.62	0	0.94	0.28	0
	1.84	0.5	0	0.83	0.21	0
	1.33	2.98	0	1.13	0.24	0
			1	1.16	0.45	0
	1.86	1.18	0	0.84	0.25	0
	1.23	0.13	1	0.87	0.39	0
	1.26	0.4	1	1.22	0.33	0
	0.74	0.13	1	0.8	0.33	0
	1.73	0.52	0	0.92	0.13	0
	0.47	0.17	1	1.05	0.4	1
	1.04	0.55	0	0.87	0.36	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.28	0.12	0	0.85	0.32	0
	1.07	0.19	1	0.98	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.22	0.09	1	0.85	0.58	0
	1.98	0.27	0	1.18	0.23	0
	2.03	0.37	0	0.95	0.4	0
	1.21	0.64	0	0.71	0.24	0
	1.77	0.19	0	0.79	0.26	0
	1.02	0.23	1	1.14	0.24	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.14	0.05	0	0.88	0.17	0
n/a	n/a		0 n/a	n/a		0
	1.42	0.01	0	0.8	0.12	0
	1.28	0.27	0	0.82	0.27	0
	1.83	0.36	0	0.78	0.11	0
	1.13	0.32	1	0.79	0.22	0
	1.4	0.42	0	0.83	0.16	0
n/a	n/a		0 n/a	n/a		0
	0.89	0.28	1	1.12	0.15	0
	1	0.15	1	0.93	0.27	0
	1.92	0.26	0	1.03	0.38	0
	1.21	0.31	1	0.83	0.3	0
	1.58	0.2	0	0.93	0.27	0
	1.67	0.39	0	1.03	0.26	0

	1.51	0.61	1	1.03	0.15	0
	1.29	0.26	0	1.02	0.39	0
	2.14	0.17	0	0.89	0.33	0
			0	1.15	0.3	0
	2.31	0.17	0	1.14	0.12	0
	0.82	0.27	1	0.82	0.37	0
	1.79	0.36	0	0.89	0.42	0
	1.52	0.25	0	0.99	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.59	0.29	0	0.98	0.15	0
n/a	n/a		0 n/a	n/a		0
	1.34	0.83	0	1.15	0.49	0
	1.79	0.25	0	0.8	0.09	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.88	0.09	1	0.93	0.21	0
	1.59	0.57	0	1.11	0.22	0
	2.12	0.72	0	0.8	0.19	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.33	0.05	0	1.12	0.19	0
	1.31	0.18	0	1.03	0.56	0
n/a	n/a		0 n/a	n/a		0
	1.53	3.06	0	0.85	0.22	0
	1.7	0.13	0	0.67	0.16	0
	1.31	0.16	0	1.26	0.21	0
	2.63	0.69	0	0.82	0.16	0
	2.08	0.3	0	1.12	0.41	0
	1.25	0.31	1	0.65	0.18	0
n/a	n/a		0 n/a	n/a		0
	1.5	0.36	1	0.86	0.4	0
	1.36	0.07	0	1.01	0.28	0
	1.12	0.11	0	0.91	0.25	0
n/a	n/a		0 n/a	n/a		0
	2.18	0.43	0	0.95	0.7	0
	1.52	0.18	0	1.04	0.19	0
	2.11	0.53	0	0.93	0.21	0
	0.75	0.45	1	0.75	0.23	0
	1.56	0.21	0	1	0.05	0
n/a	n/a		0 n/a	n/a		0
	1.26	0.16	1	0.76	0.24	0
	2.26	0.61	0	0.84	0.16	0
	1.52	0.42	1	0.84	0.22	0
	1.45	0.58	0	0.89	0.21	0
n/a	n/a		0 n/a	n/a		0
	1.36	0.15	0	0.88	0.29	0
	1.73	0.54	0	1.07	0.13	0
n/a	n/a		0 n/a	n/a		0
	1.24	0.65	0	0.92	0.22	0
	1.88	0.87	1	1.03	0.17	0
	1.13	0.25	0	1.01	0.37	0
	0.99	0.09	0	0.98	0.18	0

			0	1.08	0.3	0
	2.01	0.4	0	1.06	0.45	0
	1.66	0.4	0	1.2	0.13	0
	1.96	0.23	0	0.81	0.49	0
	1.87	0.1	0	0.94	0.32	0
	1.82	0.23	0	1	0.13	0
	1.42	0.31	0	1.01	0.23	0
	0.99	0.18	1	1.13	0.22	0
	1.94	0.26	0	0.86	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.54	0.59	0	1	1.22	0
	1.54	0.26	0	1.07	0.4	0
	1.7	0.66	0	0.88	0.26	0
	1.59	0.36	0	0.99	0.31	0
	2.23	0.73	0	0.95	0.27	0
	2.1	0.73	0	0.79	0.08	0
	1.56	0.22	0	1.12	0.26	0
	1.96	0.6	0	1.11	0.2	0
	1.43	0.32	0	0.92	0.32	0
	0.37	0.07	1	1.26	0.2	0
			1	0.68	0.17	0
	1.49	0.14	1	1.03	0.19	0
	1.82	0.13	0	0.95	0.19	0
	2.38	0.91	0	0.95	0.21	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.82	0.2	0	0.81	0.22	0
			0	0.85	0.21	0
	1.62	0.25	0	0.76	0.1	0
	1.5	0.83	0	0.95	0.24	0
	1.49	0.14	0	0.99	0.19	0
	1.68	0.48	0	1.19	0.5	0
	4.53	1.55	1	0.93	0.17	0
	1.81	0.26	0	0.87	0.26	0
	1.42	0.27	0	1.05	0.21	0
	0.35	0.01	1	0.83	0.13	0
	2.21	0.68	0	1.07	0.36	0
	1.22	0.31	0	0.92	0.35	0
	0.41	0.06	1	0.82	0.31	0
	0.43	0.04	1	1.01	0.31	1
	0.78	0.16	1	0.92	0.23	0
	0.46	0.22	1	0.84	0.32	1
	0.79	0.03	1	0.92	0.22	0
	1.86	0.2	0	1.01	0.2	0
	0.64	0.1	1	1.02	0.21	0
	0.78	0.15	1	0.94	0.57	0
	1.29	0.4	1	1.04	0.15	0
	1.75	0.47	0	1.01	0.19	0
	1.56	0.3	0	0.96	0.21	0
	1.38	0.33	1	0.7	0.29	0
	2.07	0.7	0	0.95	0.28	0
	0.43	0.07	1	0.83	0.3	0

1.75	0.21	0	0.88	0.22	0
1.54	1.09	0	0.7	0.09	0
1.32	0.23	0	0.9	0.25	0
1.87	0.35	0	0.87	0.14	0
1.55	0.56	0	1.02	0.33	0
0.3	0.04	1	0.85	0.2	0
1.59	0.43	0	1.11	0.28	0
1.06	0.26	1	1.03	0.24	0
1.87	0.36	0	0.93	0.22	0
1.92	0.17	0	0.97	0.27	0
1.67	0.7	0	1.12	0.21	0
1.9	0.43	0	1.13	0.22	0
1.71	0.18	0	0.96	0.29	0
1.3	0.22	0	0.95	0.18	0
0.92	0.08	1	0.89	0.26	0
		0	0.73	0.36	0
1.51	0.34	0	0.8	0.28	0
1.72	0.33	0	0.96	0.27	0
0.55	0.03	1	1.06	0.3	0
1.96	0.49	0	0.95	0.31	0
1.51	0.36	0	0.68	0.13	0
1.59	0.46	0	1.06	0.18	0
1.53	0.11	0	1.24	0.34	0
1.32	0.3	0	0.84	0.64	0
0.06	0	1	0.82	0.19	1
1.42	0.34	0	0.85	0.22	0
1.73	0.46	0	0.87	0.2	0
0.65	0.12	1	1.01	0.42	0
1.64	0.2	1	1.16	0.24	0
0.57	0.23	1	0.93	0.11	0
0.25	0.05	1	1.02	0.24	1
1.24	0.16	0	0.77	0.17	0
1.17	0.21	0	1	0.17	0
		1	1.01	0.26	0
2.14	0.54	0	0.84	0.46	0
0.18	0.05	1	0.84	0.16	1
0.38	0.07	1	0.98	0.08	0
		0	0.99	0.3	0
0.94	0.18	1	1.03	0.32	0
1.66	0.63	0	0.94	0.17	0
2.12	0.74	0	1.4	1.02	0
0.71	0.07	1	1.04	0.15	0
1.97	1.03	0	1.03	0.19	0
1.77	1.44	0	0.95	0.18	0
1.14	0.02	1	0.99	0.21	0
1.45	0.18	1	1.04	0.18	0
1.11	0.08	1	1.05	0.18	0
1.56	0.59	0	0.92	0.23	0
2.1	0.14	1	0.87	0.21	0
1.49	0.54	0	0.86	0.24	0
2.18	0.02	0	0.95	0.34	0
		0	0.99	0.27	0

	0.63	0.01	1	0.84	0.24	0
	1.43	0.43	0	0.76	0.11	0
	1.28	0.12	1	0.86	0.18	0
n/a	n/a		0 n/a	n/a		0
	1.57	0.51	0	0.92	0.37	0
	1.55	0.14	0	1.07	0.19	0
n/a	n/a		0 n/a	n/a		0
	1.65	0.13	0	1.06	0.31	0
	1.51	0.32	0	1.01	0.1	0
	1.84	0.32	0	0.92	0.26	0
	1.73	0.19	0	0.84	0.18	0
	2.09	0.38	0	0.93	0.2	0
	0.43	0.15	1	1.06	0.21	0
	1.56	0.25	1	0.95	0.19	0
	1.64	0.27	0	1.04	0.21	0
	1.82	0.16	0	0.84	0.16	0
	0.86	0.23	1	0.93	0.21	0
	1.28	0.84	0	0.77	0.24	0
	0.5	0.09	1	0.73	0.13	0
	2.43	0.65	0	0.79	0.21	0
	0.98	0.28	1	0.9	0.23	0
	1.06	0.32	0	0.84	0.25	0
	2.18	0.66	0	0.87	0.21	0
	0.99	0.17	1	1.07	0.2	0
	1.62	0.28	0	0.84	0.19	0
	2.22	0.51	0	1.86	0.46	0
	0.16	0.04	1	0.83	0.25	1
	0.55	0.05	1	1.48	0.41	0
	1.56	0.22	1	0.79	0.68	0
	1.41	0.44	0	0.96	0.27	0
	1.52	0.25	0	0.94	0.13	0
n/a	n/a		0 n/a	n/a		0
	2.05	0.32	0	0.87	0.23	0
	1.29	0.54	0	0.86	0.16	0
	0.1	0.03	1	0.73	0.22	1
	1.77	0.34	0	0.71	0.21	0
	2.51	0.76	0	0.95	0.24	0
	0.11	0.01	1	0.79	0.19	1
	1.76	0.57	1	0.91	0.25	0
	1.29	0.14	1	1.34	0.29	0
	1.33	0.87	0	0.9	0.19	0
	1.19	0.25	1	1.02	0.26	0
	0.97	0.09	1	1.55	0.35	0
	1.74	0.03	0	0.95	0.29	0
	0.48	0.02	1	0.96	0.24	1
	1.56	0.74	0	0.83	0.14	0
	0.76	0.1	1	1.28	0.27	0
	0.65	0.03	1	0.68	27.17	1
	1.69	0.3	0	1.11	0.2	0
			1	0.79	0.23	1
	1.59	0.12	0	1.08	0.3	0
	0.69	0.02	1	0.94	0.15	0

n/a	n/a	0	n/a	n/a	0
	1.4	0.45	0	0.77	0.17
	1.14	0.64	1	0.61	0.22
	1.63	0.69	0	1.05	0.4
	1.34	1.39	0	0.96	0.27
	1.84	1.08	0	0.94	0.74
	1.98	0.35	1	1.33	0.23
	1.11	0.04	1	1.21	0.34
	0.41	0.02	1	0.89	0.18
	1.94	0.41	1	2.53	0.94
	3.33	1.02	1	5.4	1.12
	2.14	0.15	0	1.05	3
			0	0.95	0.41
	2.36	0.52	0	0.81	0.17
	1.46	0.31	1	0.9	0.23
	0.61	0.05	1	0.95	0.22
	2.07	0.93	1	1.24	0.29
n/a	n/a	0	n/a	n/a	0
	0.41	0.19	1	0.88	0.29
			0	1.21	0.36
	1.8	0.56	0	3.53	0.83
	1.63	0.47	0	0.94	0.2
	1.94	0.57	0	1.31	0.29
	1.43	0.31	1	0.71	0.32
	1.64	0.38	0	1.13	0.26
	0.92	0.28	0	1.03	0.26
	1.37	0.26	0	0.95	0.26
	1.32	0.15	0	1.27	0.09
	0.52	0.07	1	1.33	0.35
	1.84	0.47	0	0.99	0.19
n/a	n/a	0	n/a	n/a	0
	1.74	0.76	0	0.99	0.52
	1.5	0.83	0	0.98	0.28
	1.45	0.24	0	n/a	n/a
	2.52	0.79	0	1.02	0.23
n/a	n/a	0	n/a	n/a	0
	1.36	0.12	0	0.88	0.22
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
	1.18	0.18	1	1.35	0.23
	2.22	0.36	0	0.95	0.3
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0



5.37	2	1	0.85	0.35	0
0.21	0.03	1	0.76	0.13	1
		0	1.01	0.35	0
1.19	0.57	0	1.1	0.3	0
1.67	0.51	0	0.98	0.27	0
0.97	0.21	0	1	0.14	0
2.06	0.99	0	1.01	0.11	0
0.78	0.15	1	1.41	0.26	0
2.14	0.33	0	0.97	0.19	0
1.27	0.81	0	1.1	0.29	0
2.64	0.83	0	0.85	0.36	0
2.53	1.37	0	0.94	0.17	0
1.3	0.17	1	1.31	0.37	0
1.63	0.29	0	1.03	0.23	0
1.9	0.2	0	0.84	0.24	0
1.93	0.2	1	1.24	0.41	0
2.17	0.54	0	0.89	0.28	0
1.42	0.43	0	0.85	0.15	0
1.94	0.16	0	0.72	0.13	0
2.08	0.39	0	1.02	0.32	0
3.74	1.74	1	3.22	1.29	0
1.6	0.91	0	0.93	0.18	0
1.28	0.68	0	1.19	0.21	0
1.61	0.07	0	0.9	0.17	0
1.73	1.26	0	0.99	0.22	0
1.47	0.19	1	0.87	0.17	0
2.15	0.35	0	1.04	0.24	0
1.55	0.15	0	0.94	0.35	0
1.51	0.47	0	1.12	0.3	0
2.06	0.4	0	0.91	0.55	0
1.35	0.71	0	0.93	0.2	0
1.18	0.42	0	0.98	0.32	0
1.75	0.43	0	1.18	0.11	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
		0	0.84	0.27	0
1.09	0.16	1	0.93	0.15	0
1.79	0.28	0	0.91	0.19	0
2.09	0.52	0	0.92	0.19	0
n/a	n/a	0	n/a	n/a	0
1.05	0.38	0	0.99	0.13	0
		0	0.9	0.37	0
1.71	0.39	0	0.76	0.28	0
1.87	0.08	0	0.93	0.24	0
1.55	0.18	0	0.83	0.21	0
		0	0.89	0.13	0
0.31	0.03	1	0.82	0.36	1
1.67	0.32	0	0.84	0.24	0

			0	0.95	0.42	0
	0.88	0.38	0	1.06	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.18	0.27	0	0.91	0.15	0
	0.84	0.09	0	0.91	0.27	0
n/a	n/a		0 n/a	n/a		0
			0	1.24	0.34	0
	1.58	0.25	0	1.05	0.15	0
	1.46	0.31	1	1.16	0.31	0
	2.09	0.58	1	0.99	0.13	0
	1.7	0.29	0	1.04	0.25	0
	1.62	0.29	0	0.99	0.19	0
	1	0.17	0	0.89	0.27	0
	1.61	0.28	0	1	0.22	0
	1.5	0.32	0	0.89	0.31	0
	1.25	0.14	0	0.98	0.23	0
	1.53	0.59	0	1.01	0.14	0
	1.86	0.4	0	0.93	0.21	0
	0.89	0.36	0	1	0.34	0
	0.9	0.17	1	1.1	0.4	0
	1.56	0.25	0	1.04	0.17	0
n/a	n/a		0 n/a	n/a		0
	1.15	0.11	0	1.03	0.39	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	3.25	3.19	1	1.01	0.4	0
n/a	n/a		0 n/a	n/a		0
	1.43	0.44	0	0.88	0.22	0
	1.74	0.49	0	0.83	0.27	0
	1.5	0.19	1	0.92	0.17	0
	1.83	6.18	0	0.85	0.13	0
	2	0.28	0	0.98	0.2	0
	1.31	0.16	0	0.8	0.23	0
	2.42	0.67	0	0.79	0.16	0
	1.44	0.29	1	1.59	0.58	0
n/a	n/a		0 n/a	n/a		0
	1.89	0.18	0	1.09	0.32	0
	0.53	0.12	1	1	0.21	0
	1.21	0.69	0	0.98	0.38	0
n/a	n/a		0 n/a	n/a		0
	1.47	0.62	0	0.91	0.12	0
			0	0.96	0.14	0
n/a	n/a		0 n/a	n/a		0
	2.08	0.6	0	1.05	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.18	0.18	0	0.96	0.28	0
n/a	n/a		0 n/a	n/a		0
	1.09	0.32	0	0.96	0.41	0
	2.21	0.31	0	0.93	0.23	0
	1.95	0.26	0	0.85	0.18	0
	1.52	0.46	0	1.13	0.33	0

	1.39	0.32	1	1.21	0.41	0
	1.68	0.23	1	1.73	0.6	0
	2.36	0.69	0	0.9	0.34	0
	1.78	0.28	0	0.99	0.23	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.69	0.13	0	1.05	0.34	0
	1.69	0.4	0	0.85	0.22	0
	1.81	0.22	0	0.74	0.28	0
	1.41	0.03	0	0.82	0.09	0
	1.06	0.39	0	0.82	0.26	0
	1.04	0.16	0	1.07	0.27	0
	1.86	0.13	0	0.85	0.17	0
	1.06	0.52	1	1.25	0.39	0
	1.35	0.26	0	1.09	0.24	0
	1.37	0.24	0	0.85	0.28	0
	0.86	0.26	1	1.08	0.31	0
	1.77	0.2	0	1.28	0.23	0
	1.87	0.52	0	1.05	0.34	0
	1.71	0.27	0	0.74	0.32	0
	0.65	0.07	1	1.16	0.45	0
n/a	n/a		0 n/a	n/a		0
	2.09	0.51	1	1.24	0.36	0
	1.9	0.53	0	0.9	0.06	0
	0.36	0.1	1	0.92	0.16	1
			1	0.91	0.18	0
	0.65	0.09	1	0.76	0.27	0
	0.63	0.22	1	0.84	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.93	0.28	0	0.97	0.23	0
	1.6	0.17	0	1.13	0.16	0
	1.14	0.14	0	1.03	0.19	0
	1.31	0.34	0	0.88	0.36	0
n/a	n/a		0 n/a	n/a		0
	1.51	0.23	0	0.79	0.45	0
	0.79	0.06	1	0.75	0.32	0
	1.45	0.33	0	0.96	4.42	0
	1.56	0.61	0	1.03	0.36	0
	2.07	0.64	0	0.92	0.19	0
	1.19	0.12	0	1.05	0.31	0
	2.26	0.43	0	1.23	0.39	0
	1.92	0.11	0	1.09	0.55	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.72	0.09	1	0.85	0.21	0
	1.84	0.2	0	0.86	0.28	0
	1.09	0.25	1	1.1	0.22	0
			1	1.14	0.29	0
	0.88	0.24	1	1.04	0.14	0

		1	0.8	0.2	0
1.02	0.21	0	0.95	0.15	0
		1	1.37	0.28	0
1.37	0.58	0	1.24	0.33	0
1.33	0.12	0	0.9	0.22	0
		1	0.87	0.19	0
1.91	0.17	1	2.53	0.77	0
1.38	0.5	0	0.98	0.16	0
1.29	0.28	1	0.92	0.18	0
		1	0.72	0.21	0
1.72	0.39	0	1.11	2.05	0
1.92	0.23	0	0.95	0.22	0
1.33	0.42	0	0.91	0.25	0
0.79	0.11	1	0.97	0.13	0
1.32	1.81	0	1.54	1.15	0
0.65	0.15	1	1.02	0.21	0
1.62	0.56	0	0.9	0.19	0
1.16	0.29	0	0.72	0.11	0
0.96	0.32	1	0.96	0.22	0
1.37	0.03	1	1.28	0.3	0
0.37	0.03	1	1.27	0.18	1
1.21	0.18	0	1.02	0.3	0
2.21	0.78	0	0.89	0.35	0
1.12	0.15	0	1.07	0.32	0
1.51	0.41	0	0.82	0.33	0
0.33	0.06	1	1.02	0.32	0
0.96	0.05	0	0.89	0.24	0
1.29	0.17	0	0.95	0.19	0
1.94	0.28	0	0.87	0.25	0
n/a	n/a	0	n/a	n/a	0
		0	0.73	0.12	0
2.24	0.32	0	0.81	0.26	0
1.05	0.12	1	1.05	0.22	0
0.74	0.05	1	1.36	0.47	0
1.62	0.4	0	0.97	0.33	0
0.59	0.16	1	1.07	0.1	1
1.45	0.13	0	0.83	0.53	0
1.13	0.71	0	0.88	0.23	0
2.19	0.45	0	0.86	0.16	0
0.95	0.2	1	0.81	0.27	0
1.46	0.14	0	0.97	0.26	0
1.35	0.71	0	0.81	0.28	0
1.31	0.09	0	0.91	0.29	0
1.21	0.11	0	0.99	0.24	0
1.55	0.46	0	0.89	0.22	0
1.02	0.4	0	0.96	0.27	0
2.13	0.11	0	0.85	0.19	0
n/a	n/a	0	n/a	n/a	0
		0	0.98	0.08	0
1.86	0.47	0	0.86	0.12	0
		0	0.61	0.29	0
2.97	1.82	1	3.59	0.66	0

	1.29	0.14	1	1.15	0.38	0
	1.6	0.34	0	0.87	0.31	0
	1.82	0.48	0	1.28	0.57	0
	1.71	0.43	0	0.86	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.75	0.31	0	0.85	0.45	0
	1.89	0.44	0	0.88	0.21	0
	1.66	0.07	0	0.92	0.33	0
	1.49	0.18	0	0.96	0.36	0
	1.68	0.08	1	1.11	0.32	0
	1.07	0.24	0	0.93	0.17	0
	1.63	0.28	0	0.97	0.22	0
	1	0.3	1	0.96	0.16	0
	0.98	0.08	1	1.04	20.89	0
n/a	n/a		0 n/a	n/a		0
	1.15	0.24	0	0.79	0.35	0
	1.7	0.24	0	0.97	0.13	0
	1.7	0.17	0	1.02	0.32	0
	2.1	0.39	0	0.93	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.07	0.07	0	0.93	0.16	0
	1.15	0.13	0	1.12	0.22	0
	0.85	0.13	1	1.1	0.35	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.39	0.48	0	0.84	0.3	0
	0.62	0.14	1	0.81	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.26	0.2	0	1.09	0.48	0
n/a	n/a		0 n/a	n/a		0
	1.57	0.47	0	0.83	0.48	0
	1.22	0.15	1	1.07	0.07	0
	1.7	0.35	0	0.77	0.38	0
	1.57	0.33	1	0.83	0.33	0
	2.62	0.87	0	0.98	0.2	0
	1.06	0.17	1	1.04	0.34	0
	1.92	0.23	0	0.78	0.35	0
	1.51	0.06	0	1	0.25	0
	2.06	0.52	0	0.87	0.44	0
	1.21	0.05	0	0.89	0.19	0
	1.45	0.13	0	0.91	0.25	0
	1.95	0.43	0	1.03	0.23	0
	1.36	0.08	0	0.97	0.37	0
	1.04	0.12	1	1.2	0.17	0
	0.63	0.17	1	1.32	0.32	1
	1.29	0.35	0	1.37	0.96	0
	0.85	0.18	1	0.91	0.14	0
	1.31	0.12	0	0.92	0.3	0
	1.46	0.33	1	0.94	0.24	0
	1.55	0.43	0	0.99	0.23	0
	2.58	0.89	0	0.95	0.23	0
	2.06	0.76	0	0.79	0.16	0

1.25	0.15	1	1.34	0.18	0
0.9	0.13	1	0.99	0.09	0
2.14	0.41	1	2.89	0.62	0
0.67	0.1	1	0.81	0.15	0
2.11	0.49	0	0.76	0.16	0
1.43	0.08	0	1.03	0.43	0
1.02	0.13	1	1.07	0.18	0
1.1	0.15	1	1.22	0.3	0
1.03	0.23	0	0.96	0.46	0
2.29	0.5	0	0.8	0.35	0
1.03	0.32	1	1.21	0.35	0
1.58	0.19	0	0.75	0.13	0
0.67	0.09	0	0.76	0.27	0
1.67	0.45	0	0.84	0.37	0
1.43	0.29	0	0.91	0.12	0
0.22	0.04	1	0.82	0.17	1
1.87	0.6	0	0.92	0.21	0
1.4	0.09	1	0.97	0.21	0
1.24	0.37	1	0.86	0.28	0
		1	0.69	0.09	1
1.88	0.31	1	2.47	0.85	0
0.67	0.19	1	0.9	0.08	0
0.75	0.06	1	1.06	0.11	0
1.94	0.31	0	0.83	0.3	0
0.79	0.82	1	0.92	0.2	0
n/a	n/a	0	n/a	n/a	0
1.09	0.03	1	0.84	0.19	0
1.88	0.32	0	0.87	0.23	0
0.33	0.41	1	0.72	0.25	1
0.58	0.22	1	0.9	0.29	1
1.62	0.08	0	0.97	0.37	0
1.55	0.37	0	0.87	0.18	0
1.58	0.32	0	0.86	0.43	0
1.31	0.14	1	0.89	0.18	0
		0	0.81	0.3	0
2.02	0.13	0	1.1	0.27	0
1.61	0.67	0	1.05	0.26	0
1.45	0.76	0	0.87	0.41	0
1.42	0.49	0	0.95	0.49	0
0.87	0.59	0	1.09	0.18	0
0.99	0.38	0	0.8	0.22	0
2.05	0.1	0	1.01	0.22	0
0.55	0.04	1	1.06	0.35	1
1.49	0.32	0	1.04	0.21	0
1.64	0.03	0	1.03	0.33	0
0.57	0.04	1	0.85	0.08	1
2.08	0.13	0	0.95	0.22	0
n/a	n/a	0	n/a	n/a	0
1.71	0.52	0	0.87	0.51	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0



	1.69	0.5	0	0.92	0.2	0
	1.78	1.57	0	1.2	0.32	0
			0	0.88	0.18	0
	1.17	0.31	0	1.17	0.36	0
	1.96	0.82	0	0.82	0.3	0
	1.75	0.3	0	0.8	0.62	0
	0.86	0.67	0	1.05	0.21	0
	1.28	0.3	1	1.22	0.38	0
	1.82	0.47	0	0.99	0.3	0
	1.62	0.3	0	0.99	0.21	0
	1.78	0.24	0	1.06	0.16	0
	0.48	0.11	1	0.98	0.46	1
	1.43	0.94	0	0.98	0.13	0
	2.67	0.68	1	1.07	0.27	0
			1	0.99	0.29	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.57	0.3	0	1.17	0.16	0
n/a	n/a		0 n/a	n/a		0
	2.04	0.6	0	1.07	0.11	0
n/a	n/a		0 n/a	n/a		0
	1.61	0.33	0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	2.07	0.36	0	0.82	0.44	0
n/a	n/a		0 n/a	n/a		0
	1.36	0.2	0	1.17	0.23	0
	2.15	0.11	0	1.08	0.45	0
	1.79	0.41	0	0.81	0.28	0
	0.58	0.1	1	0.88	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.78	0.3	0	0.81	0.29	0
	1.54	0.76	0	1.05	0.35	0
	1.98	0.51	0	0.87	0.22	0
	2.06	0.51	0	0.92	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.07	0.37	1	1.13	0.61	0
	2.47	0.2	0	1.16	0.18	0
	1.45	0.18	0	1.24	0.55	0
n/a	n/a		0 n/a	n/a		0
	1.72	0.52	0	0.93	0.33	0
	1.56	0.06	0	0.77	0.23	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
			1	0.82	0.15	0
	1.92	0.32	0	0.95	0.19	0
	1.13	0.25	1	0.96	0.11	0
	2.1	0.59	1	1.09	0.15	0
	2.48	0.57	0	0.9	0.15	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.67	0.15	0	0.83	0.32	0
	0.63	0.15	1	3.27	1.01	0



n/a	n/a	0	n/a	n/a	0	
	1.74	0.74	0	1.18	0.34	0
	2.06	0.3	0	1.18	0.28	0
	1.79	0.55	0	1.05	0.42	0
			0	0.98	0.52	0
	1.27	0.69	1	0.99	0.06	0
	0.59	0.12	1	1.01	0.32	0
	1.68	0.22	0	1.11	0.29	0
	2.56	0.4	0	0.81	0.43	0
	1.67	0.3	0	0.85	0.42	0
	1.96	0.03	0	0.95	0.22	0
	2.17	0.41	0	1.08	0.32	0
	1.73	0.44	0	0.86	0.2	0
			0	0.92	0.32	0
	1.69	0.09	0	1.06	0.27	0
	2.48	0.18	0	1.21	0.07	0
	1.94	0.82	0	0.92	0.26	0
n/a	n/a	0	n/a	n/a	0	
	3.1	0.89	0	0.94	0.39	0
n/a	n/a	0	n/a	n/a	0	
	1.48	0.44	0	1.16	0.34	0
	1.61	0.36	0	1.27	0.34	0
	1.68	0.44	0	0.92	0.2	0
	1.39	0.17	0	1.07	0.24	0
n/a	n/a	0	n/a	n/a	0	
	2.41	0.21	0	0.97	0.31	0
	1.33	0.04	1	0.93	0.26	0
	8.99	3.57	1	1.35	0.66	0
	0.63	0.25	1	0.9	0.22	0
	2.36	0.38	0	0.69	0.17	0
	1.72	0.31	0	1.1	0.13	0
	1.44	0.49	0	0.83	0.49	0
	2.67	0.65	0	0.85	0.26	0
	1.66	0.27	1	1.25	0.19	0
	2.15	0.23	0	0.99	0.14	0
	2.15	0.59	0	1.28	0.12	0
	2.15	0.42	0	0.86	0.2	0
	2.31	0.26	0	0.96	0.24	0
n/a	n/a	0	n/a	n/a	0	
	1.37	0.06	0	1.08	0.19	0
	0.87	0.27	1	0.97	0.27	0
	1.38	0.29	1	0.82	0.26	0
			1	0.69	0.61	1
	1.8	0.19	0	0.92	0.19	0
	2.64	0.49	0	0.78	0.31	0
	1.35	0.25	0	1	0.17	0
	1.95	0.35	0	0.8	0.34	0
	0.94	0.34	1	0.89	0.1	0
	1.17	0.22	1	0.71	0.2	0
	1.59	0.16	1	0.79	0.23	0
	1.58	0.14	0	1.05	0.15	0
n/a	n/a	0	n/a	n/a	0	

n/a	n/a	0	n/a	n/a	0
1.25	0.41	0	0.81	0.23	0
		0	1.01	0.22	0
		0	1.09	0.28	0
1.59	0.15	0	1.05	0.21	0
n/a	n/a	0	n/a	n/a	0
1.42	0.02	0	1.83	0.65	0
2.08	0.63	0	0.98	0.16	0
1.91	0.13	0	0.86	0.26	0
1.6	0.1	1	0.85	0.17	0
2.31	0.61	0	0.93	0.38	0
1.61	0.16	0	0.87	0.11	0
1.53	0.39	0	0.87	0.28	0
0.62	0.02	1	1.04	0.86	1
0.91	0.05	1	0.93	0.14	0
1.53	0.51	0	0.96	0.18	0
1.45	0.2	0	1.05	0.12	0
1.75	0.46	0	1.12	0.15	0
		0	1.06	0.27	0
1.13	2.82	1	1.14	0.3	0
1.28	0.6	0	1.11	2.45	0
2.57	0.55	0	1.16	0.31	0
1.31	0.14	1	0.98	0.23	0
1.5	0.58	0	1.22	0.33	0
1.6	0.3	0	1.14	0.27	0
1.05	0.06	1	1.03	0.18	0
1.16	0.61	0	0.96	0.22	0
1.15	0.19	1	0.88	0.25	0
1.65	0.24	0	0.89	0.21	0
1.19	0.23	1	0.66	0.36	0
1.66	0.31	0	0.8	0.32	0
0.26	0.1	1	0.71	0.62	1
0.48	0.1	1	0.79	0.66	1
1	0.07	0	0.75	0.25	0
2.22	1.09	0	1.14	0.5	0
1.19	0.23	0	1.11	0.33	0
1.77	0.5	0	1.09	0.3	0
1.55	0.39	0	1	0.16	0
2.31	0.68	0	1.03	0.25	0
2.73	0.85	0	1.11	0.36	0
0.81	1.82	1	1.1	0.22	1
1.75	4.31	0	1.2	0.39	0
1.38	0.12	0	1.22	0.38	0
1.57	0.29	0	0.89	0.49	0
4.17	1	1	0.87	0.24	0
1.28	0.37	0	0.91	0.29	0
4.06	0.7	1	0.93	0.32	0
1.55	0.62	0	0.78	0.22	0
1.53	0.71	1	1.03	0.25	0
		1	0.93	0.35	0
1.2	0.1	0	0.93	0.25	0
		0	1.05	0.3	0

	0.8	0.27	0	1	0.21	0
	1.76	0.57	0	1.04	0.28	0
	1.57	0.05	0	1.06	0.15	0
	1.49	1.01	0	0.89	0.2	0
	0.87	0.31	1	0.91	0.3	0
	2.63	0.7	0	0.98	0.19	0
	1.8	0.79	0	1.25	0.44	0
	1.98	0.25	0	0.99	0.21	0
	1.61	0.14	0	1.54	0.3	0
n/a	n/a		0 n/a	n/a		0
	1.57	1	0	0.67	0.37	0
	0.93	0.07	1	0.86	0.49	0
	1.51	0.1	0	0.84	0.16	0
	0.54	0.07	1	0.96	0.17	0
	0.52	0.13	1	0.91	0.19	0
	0.89	0.11	1	0.89	0.31	0
	1.85	0.43	0	0.77	0.16	0
	1.81	0.19	0	0.98	0.38	0
	1.7	0.11	1	0.84	0.12	0
	0.99	0.06	1	0.88	0.15	0
n/a	n/a		0 n/a	n/a		0
	1.05	0.38	0	1.03	0.28	0
	1.47	0.45	0	1.16	0.4	0
	1.86	0.23	0	1.34	2.21	0
	1.98	0.9	0	1.24	0.3	0
	1.71	0.39	0	1.14	0.16	0
	2.11	0.33	0	0.9	0.26	0
	1.43	0.33	0	0.92	0.26	0
	1.61	0.38	0	0.97	0.17	0
n/a	n/a		0 n/a	n/a		0
	0.9	0.03	1	0.79	0.34	1
	1.84	0.51	0	0.92	0.07	0
	1.88	0.39	0	1.07	0.31	0
	2.22	3.19	0	0.95	0.23	0
	1.06	0.23	1	0.95	0.4	0
	1.85	0.41	0	0.99	0.18	0
	1.63	0.7	0	1.12	0.25	0
	1.72	0.16	0	1.12	0.2	0
	1.71	0.4	0	1.01	0.44	0
	1.37	0.4	0	1.09	0.3	0
	1.06	0.32	1	1.04	0.18	0
	1.27	0.2	1	1.13	0.26	0
	2.2	0.81	0	1.28	0.52	0
	1.93	0.58	0	1.01	0.31	0
	1.97	0.26	0	1.2	0.23	0
	1.13	0.18	1	1.17	0.32	0
	1.24	0.46	1	0.82	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.57	0.3	0	0.79	0.1	0
	1.38	0.39	0	0.99	0.22	0
	0.73	0.23	1	0.62	0.34	1
	1.93	0.13	0	0.93	0.25	0

			1	0.76	0.18	0
	0.12	0.04	1	0.82	0.28	1
	1.75	0.86	0	0.84	0.42	0
	1.36	0.25	0	0.99	0.2	0
	0.8	0.27	1	1.21	0.52	0
	1.29	1.03	0	0.88	0.27	0
	1.7	0.26	0	0.92	0.15	0
	1.31	0.34	1	1.01	0.38	0
	2.22	0.6	0	1.16	0.52	0
	1.27	0.67	1	1.06	0.26	0
	0.68	0.11	1	0.99	0.19	0
	2.69	0.82	0	1.06	0.26	0
	1.32	0.6	0	1.04	0.53	0
	2.42	0.8	1	0.98	0.14	0
	2.26	0.3	0	0.91	0.2	0
	0.37	0.03	1	0.82	0.43	1
	1.67	0.22	0	0.89	0.11	0
			1	0.84	0.58	1
	1.03	0.46	1	0.88	0.16	0
	1.86	0.3	0	1.15	0.25	0
n/a	n/a		0 n/a	n/a		0
	0.81	0.15	1	0.99	0.26	0
	1.6	0.97	1	1.13	0.18	0
	1.43	0.35	1	1.07	0.47	0
	1.23	0.16	1	1.17	0.16	0
	1.8	0.37	1	1.19	0.35	0
	2.13	0.57	0	0.93	0.18	0
	0.35	0.02	1	0.92	0.38	1
	1.92	0.31	0	0.99	0.18	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
			1	0.89	0.28	1
	0.98	0.03	1	0.69	0.4	0
	0.72	0.13	1	0.78	0.32	1
	0.4	0.02	1	0.85	0.33	1
	0.22	0.04	1	1.19	0.59	1
	1.47	0.21	0	1.13	0.42	0
	0.83	0.62	1	0.88	0.38	0
n/a	n/a		0 n/a	n/a		0
	2.03	0.24	0	1.05	0.34	0
	1.59	0.2	0	0.96	0.25	0
	1.25	0.79	0	0.97	0.3	0
	0.78	0.17	1	0.9	0.44	0
	0.67	0.11	1	1.24	1.44	0
n/a	n/a		0 n/a	n/a		0
	1.65	0.4	0	1.04	0.55	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.5	0.41	0	0.87	0.25	0
			0	0.92	0.48	0
	1.51	0.28	1	1.21	0.26	0
	1.75	0.5	0	0.97	0.38	0

n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
	2.36	0.4	0	0.96	0.22	0
	0.39	0.05	1	3.37	1.65	1
	1.63	0.19	0	1.04	0.25	0
	1.31	0.26	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
	1.63	0.21	0	1.11	0.18	0
n/a	n/a	0	n/a	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
	2.23	0.82	0	1.02	0.25	0
n/a	n/a	0	n/a	n/a	n/a	0
	1.65	0.15	0	0.87	0.22	0
	1.51	0.23	0	1	0.45	0
	1.39	0.16	1	0.96	0.18	0
	1.94	0.17	0	0.96	0.29	0
			0	1.01	0.33	0
	0.93	0.26	1	1.16	0.41	0
	1.16	0.45	0	1.07	0.2	0
	1.03	0.47	1	0.97	0.35	0
n/a	n/a	0	n/a	n/a	n/a	0
n/a	n/a	0	n/a	n/a	n/a	0
	1.55	0.1	0	1.27	0.47	0
	2.4	0.2	0	1.1	0.38	0
	0.5	0.11	1	0.87	0.83	1
	1.61	0.73	0	0.97	0.17	0
	2.04	0.13	0	1.11	0.1	0
	1.35	0.25	0	0.88	0.23	0
	1.42	0.2	0	0.92	0.17	0
	1.41	0.39	0	1.99	0.5	0
	1.98	1.06	0	0.91	0.21	0
	1.74	0.37	0	0.8	0.37	0
	1.95	0.74	0	0.99	0.18	0
	1.64	0.36	0	0.85	0.25	0
	1.61	0.29	0	2.32	0.88	0
	1.41	1.17	0	0.94	0.17	0
	0.71	0.46	1	0.98	0.45	0
	1.56	0.37	1	0.99	0.07	0
	1.56	0.55	0	0.87	0.3	0
	1.97	0.33	0	0.87	0.35	0
	1.97	0.75	0	1.02	0.29	0
	2.16	0.25	0	1.01	0.25	0
	2.01	0.62	0	0.9	0.19	0
	1.81	0.04	0	3.6	1.19	0
	1.09	0.25	1	1.35	0.35	0
	1.35	0.45	1	1.46	0.62	0
	1.41	0.37	0	1.12	0.31	0

	1.25	0.37	0	0.98	0.3	0
	1.67	0.45	1	0.87	0.27	0
	1.98	0.76	0	0.81	0.19	0
	1.46	0.58	0	1.05	0.27	0
	1.09	0.16	0	0.92	0.46	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.75	0.33	0	0.74	0.27	0
	1.73	0.18	0	0.91	0.2	0
	1.33	0.47	0	1	0.36	0
	1.25	0.32	0	0.86	0.13	0
	1.42	0.39	0	0.89	0.17	0
	1.1	0.46	0	1.02	0.25	0
	1.7	0.86	0	0.94	0.3	0
	1.31	0.16	0	0.96	0.31	0
	1.47	0.21	0	0.99	0.29	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.84	1.03	0	0.84	0.22	0
	0.95	0.39	0	0.79	0.21	0
	1.7	0.44	0	1.03	0.3	0
	0.78	0.05	1	0.92	0.54	0
	1.27	0.49	0	1.05	0.1	0
	2.31	0.52	0	0.98	2.44	0
	2.63	0.81	0	0.97	0.29	0
	1.81	0.59	0	0.87	0.37	0
	1.99	0.59	0	0.9	0.11	0
	1.67	0.92	0	0.93	0.17	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.62	0.14	0	0.94	0.13	0
	2.41	0.57	0	1.14	0.29	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.86	0.38	1	0.95	0.33	0
	1.26	0.48	0	0.78	0.23	0
	1.06	0.21	1	0.93	0.2	0
	1.19	0.27	0	1.01	0.12	0
	1.53	1.28	0	0.92	0.27	0
	0.08	0.02	1	0.81	0.17	1
	1.58	0.17	0	0.89	0.29	0
	0.13	0.04	1	0.71	0.41	1
	1.54	0.41	0	0.83	0.25	0
	1.7	0.24	0	0.81	0.33	0
	1.56	0.14	0	0.97	0.17	0
	1.49	0.05	0	0.96	0.4	0
	2.21	0.28	0	0.98	0.51	0
n/a	n/a		0 n/a	n/a		0

n/a	n/a	0	n/a	n/a	0
1.92	0.52	0	0.89	0.39	0
1.59	0.4	0	1.06	0.25	0
1.03	0.12	1	0.91	0.63	0
1.81	1.73	0	1.12	0.24	0
		0	0.99	0.4	0
0.82	0.34	1	0.9	0.24	0
2.1	0.3	0	0.76	0.38	0
0.31	0.06	1	1.16	0.41	0
0.65	0.09	1	0.87	0.28	0
1.61	0.54	0	1.13	0.22	0
1.77	0.52	0	0.97	0.25	0
1.51	0.28	0	0.95	0.35	0
n/a	n/a	0	n/a	n/a	0
1.29	0.25	0	0.91	0.18	0
0.41	0.04	1	0.93	0.46	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
n/a	n/a	0	n/a	n/a	0
1.29	0.13	1	0.95	0.46	0
1.16	0.87	0	0.96	0.23	0
1.57	1.91	0	0.99	0.48	0
n/a	n/a	0	n/a	n/a	0
1.19	0.27	1	1.01	0.31	0
1	0.19	1	1.06	0.25	0
n/a	n/a	0	n/a	n/a	0
2.01	0.33	0	0.9	0.11	0
1.28	0.29	1	1.06	0.51	0
1.46	0.26	1	0.8	0.27	0
1.49	0.72	0	1.15	0.43	0
1.29	0.49	0	0.95	0.27	0
1.63	0.3	0	0.96	0.25	0
1.51	0.66	0	0.89	0.27	0
2.14	0.48	0	0.81	0.21	0
1.75	0.17	1	0.75	0.16	0
1.79	0.66	0	1.24	0.27	0
0.9	0.1	1	0.9	0.31	0
1.39	0.57	0	0.85	0.2	0
1.35	0.45	1	1.05	0.24	0
1.53	0.42	1	0.81	0.31	0
0.64	0.17	1	0.87	0.33	0
1.99	1.05	0	1.06	0.24	0
0.96	0.16	1	1.06	0.3	0
1.4	1.03	0	0.78	0.27	0
1.26	0.22	0	0.68	0.37	0
1.6	0.21	0	0.91	0.14	0
0.96	0.13	1	5.31	1.73	1
		0	0.96	0.23	0
1.5	0.18	1	0.8	0.3	0
2.15	0.8	0	0.78	0.14	0
2	0.09	0	0.95	0.28	0
0.92	0.47	1	1.03	0.65	0

	2.16	0.26	0	0.78	0.22	0
	1.32	0.06	0	0.92	0.23	0
	1.75	0.44	0	0.86	0.28	0
n/a	n/a		0	n/a	n/a	0
	1.38	0.12	0	1	0.4	0
	1.11	0.11	0	1.07	0.2	0
	0.93	0.2	1	0.94	0.18	0
	1.72	0.22	0	1.06	0.29	0
	1.81	0.42	0	0.89	0.46	0
	1.97	0.42	1	0.93	0.28	0
	2.68	0.7	0	0.96	0.41	0
	0.49	0.22	1	1.03	0.35	1
	0.27	0.04	1	0.48	0.27	1
	2.03	0.75	0	0.95	0.18	0
	1.95	0.9	0	0.76	0.19	0
	1.61	0.84	0	0.92	0.22	0
	2.24	0.28	0	0.89	0.15	0
	0.69	0.11	1	1.16	0.45	0
			0	1.05	0.08	0
	1.26	0.24	0	0.69	0.41	0
	1.83	0.93	0	1.05	0.3	0
	0.69	0.15	1	0.86	0.18	0
			1	4.15	0.81	0
	2.26	0.55	0	0.88	0.34	0
			1	1.54	0.54	0
	1.19	0.05	1	0.91	0.19	0
	1.01	0.14	1	0.88	0.32	0
	0.32	0.05	1	1.2	0.28	0
	1.6	0.7	0	0.93	0.3	0
	1.11	0.21	0	0.94	0.24	0
n/a	n/a		0	n/a	n/a	0
	1.38	0.73	0	0.96	0.29	0
	0.6	0.03	1	0.97	0.21	0
			1	1.3	0.52	0
	0.32	0.06	1	1.37	0.53	1
	0.27	0.35	1	0.69	0.34	1
	0.78	0.2	1	0.91	0.32	0
	1.52	0.4	0	0.95	0.23	0
	1.64	1.94	0	0.96	0.12	0
	1.87	0.41	0	0.95	0.44	0
	2.59	3.96	0	0.96	0.4	0
	1.69	0.52	0	0.9	0.4	0
			0	0.83	0.21	0
	1.77	0.09	0	0.86	0.44	0
	0.69	0.28	1	0.98	0.4	0
	1.46	4.08	0	0.84	0.21	0
	1.42	0.62	0	0.94	0.32	0
	1.48	0.14	1	0.8	0.56	0
	0.5	0.12	1	0.92	0.32	0
	1.89	1.93	0	1.05	0.28	0
	1.87	0.47	0	1.25	0.26	0
	1.5	0.49	0	0.86	0.15	0



1.76	0.09	0	1.07	0.43	0
1.48	0.06	1	1.42	0.87	1
1.51	0.55	0	1	0.1	0
1.75	0.29	0	0.94	0.26	0
1.46	0.81	0	0.99	0.3	0
0.92	0.08	1	0.98	0.51	0
0.36	0.11	1	1.62	0.4	0
1.44	0.18	0	0.89	0.29	0
3.12	3.91	1	0.86	0.29	0
		1	1.13	0.41	0
0.81	0.12	1	1.1	0.32	0
1.73	0.22	0	0.98	0.31	0
1.13	0.24	1	0.93	0.14	0
0.12	0.03	1	0.9	0.31	1
0.53	0.1	1	1.44	0.61	1
		0	0.99	0.51	0
0.89	0.12	1	1.04	0.31	0
1.79	0.49	0	0.96	0.38	0
1.55	0.46	0	0.83	0.24	0
		1	0.97	0.14	0
1.51	0.91	0	0.95	0.1	0
0.71	0.06	1	1.16	0.38	0
		0	0.84	0.42	0
1.54	0.17	1	1.03	0.38	0
1.5	0.59	0	1.03	0.26	0
2.09	0.73	0	1.07	0.21	0
2.35	0.92	0	0.97	0.2	0
2.61	0.81	0	0.75	0.2	0
1.2	0.22	0	1.11	0.28	0
0.32	0.04	1	0.99	0.24	0
1.61	0.51	0	1.09	0.21	0
1.51	0.33	0	0.94	0.23	0
1.54	1.41	0	0.93	0.33	0
1.19	0.41	1	1.05	0.15	0
1.18	0.5	0	1.07	0.58	0
n/a	n/a	0	n/a	n/a	0
		1	1.15	0.26	0
1.84	0.29	0	1.01	0.31	0
3.07	0.28	1	2.2	0.36	0
		1	1.07	0.42	0
n/a	n/a	0	n/a	n/a	0
1.64	0.72	0	0.97	2.53	0
1.62	0.18	1	1.14	0.14	0
2.02	0.48	0	1.14	0.33	0
1.49	0.4	0	1.03	0.45	0
0.75	0.13	1	0.85	0.35	0
1.79	0.17	0	0.99	0.3	0
2.41	0.76	0	0.99	0.38	0
1.49	0.63	0	0.9	0.13	0
1.81	0.33	0	0.83	0.44	0
1.85	0.25	0	0.78	0.52	0
1.94	0.66	0	0.99	0.11	0

	1.47	0.36	0	1.2	0.22	0
	1.79	0.41	0	0.86	0.16	0
	1.25	0.33	1	1.16	0.21	0
	1.34	0.16	0	0.84	0.3	0
n/a	n/a		0	n/a	n/a	0
	1.28	0.31	0	1.01	0.32	0
	5.43	1.34	1	9.75	1.54	1
	1.76	1.21	0	1.02	0.23	0
	1.81	0.91	0	0.83	0.27	0
	1.02	0.26	1	0.91	0.32	0
	0.28	0.08	1	0.9	0.33	0
	2.35	0.6	0	0.93	0.27	0
	1.15	0.08	1	0.84	0.3	0
	1.59	0.21	1	1.08	0.26	0
	1.55	0.58	0	0.95	0.12	0
	1.7	0.29	0	0.92	0.24	0
			1	1.08	0.19	0
n/a	n/a		0	n/a	n/a	0
	1.94	0.75	0	0.7	0.14	0
	1.25	0.39	0	0.95	0.6	0
	1.28	0.22	1	1.02	0.45	0
	1.11	0.46	0	0.93	0.32	0
n/a	n/a		0	n/a	n/a	0
	1.36	0.44	0	1.2	0.43	0
	2.3	0.79	0	0.74	0.22	0
	1.55	0.59	0	0.91	0.19	0
	1.81	0.27	0	0.98	0.32	0
n/a	n/a		0	n/a	n/a	0
	1.16	0.13	0	0.93	0.13	0
	1.45	0.84	1	0.97	0.19	0
	1.59	0.29	0	1.03	0.26	0
	1.37	0.15	1	1.28	0.49	0
	1.37	0.19	1	1.21	0.31	0
	1.1	0.06	0	0.84	0.21	0
	1.66	1.21	0	1.08	0.12	0
	2.29	0.54	0	0.96	0.45	0
	2.1	0.72	0	1.07	0.39	0
	1.09	0.05	1	0.85	0.24	0
	1.66	0.33	0	0.74	0.16	0
	1.61	0.15	1	0.86	0.22	0
	1.61	0.84	0	1	0.78	0
	2.2	1.13	0	0.88	0.18	0
	1.18	0.29	1	0.92	0.25	0
	1.19	0.07	1	1.01	0.25	0
	1.32	0.06	1	1.23	0.5	0
	0.8	0.2	1	1.3	0.51	0
	1.87	0.19	0	1.01	0.15	0
	2.03	0.84	0	0.99	0.26	0
	1.47	1.04	0	0.87	0.32	0
	0.5	0.08	1	0.64	0.3	0
	1.75	0.4	1	1	0.43	0
	1.34	0.71	0	0.98	0.14	0

	1.44	0.73	0	0.8	0.23	0
n/a	n/a		0 n/a	n/a		0
	1.59	0.45	0	2.73	1	0
	1.7	0.44	0	0.89	0.42	0
n/a	n/a		0 n/a	n/a		0
	1.15	0.51	1	1.2	0.46	0
	1.54	0.47	1	1.11	0.24	0
	1.6	0.41	0	0.98	0.62	0
	2.17	0.54	0	1.2	0.19	0
	1.33	0.05	0	1	0.16	0
			1	0.93	0.15	0
	1.65	1.03	0	0.86	0.33	0
	1.67	0.53	0	0.81	0.22	0
	1.6	0.36	0	0.93	0.43	0
n/a	n/a		0 n/a	n/a		0
	1.13	0.51	1	1.08	0.23	0
	1.64	0.48	0	0.89	0.17	0
n/a	n/a		0 n/a	n/a		0
	1.25	0.19	1	1.08	0.19	0
n/a	n/a		0 n/a	n/a		0
	1.39	1.72	0	1.33	0.58	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
			1	1.3	0.26	0
	1.11	0.63	0	1.05	0.2	0
	1.76	0.37	0	1.05	0.41	0
	1.64	0.29	0	0.98	0.14	0
	1.62	0.54	0	0.92	0.26	0
	0.68	0.11	1	0.77	0.54	1
	1.46	0.4	1	1.19	0.31	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.01	0.69	0	1.12	0.19	0
n/a	n/a		0 n/a	n/a		0
	2.02	0.26	0	0.95	0.43	0
	0.67	0.18	1	0.86	0.36	1
	0.85	0.36	1	2.27	0.47	0
	1.34	0.56	0	1.11	0.3	0
	1.61	0.55	0	1.04	0.4	0
	1.53	0.3	0	0.77	0.11	0
	2.35	0.49	0	1.02	0.22	0
	1.52	0.26	0	1	0.3	0
	1.32	0.49	1	1.68	0.45	1
	1.56	0.15	0	0.86	0.12	0
	2.3	0.74	0	0.86	0.29	0
	2.15	0.45	0	0.83	0.15	0
	1.62	0.68	0	1	0.35	0

	1.51	0.51	0	0.93	0.19	0
	1.25	0.51	0	1	0.21	0
	1.52	0.43	0	0.9	0.14	0
	2.13	0.37	0	0.77	0.28	0
	1.92	0.4	0	0.97	0.35	0
	1.89	0.8	0	0.82	0.18	0
	1.39	0.31	0	0.94	0.23	0
	1.46	0.47	0	0.84	0.16	0
	1.65	0.31	0	0.73	0.15	0
	1.37	0.48	0	0.94	0.3	0
	2.02	0.66	0	0.85	0.23	0
	1.05	0.29	1	1.05	0.29	0
	1.75	0.66	0	0.83	0.12	0
	1.93	0.4	0	1.02	0.15	0
	1.18	0.34	0	1.06	0.16	0
	1.47	0.48	0	0.95	0.15	0
	1.4	0.15	0	0.9	0.15	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.69	0.13	0	1.11	0.41	0
	0.16	0.03	1	0.86	0.25	0
			0	1.14	0.37	0
	1.62	0.36	0	0.98	0.33	0
			0	1.04	0.42	0
	1.14	0.15	1	1.13	0.3	0
			1	0.9	0.34	0
	2.12	0.33	0	1.28	0.24	0
	0.4	0.07	1	0.91	0.2	0
	0.69	0.21	1	0.98	0.33	0
	1.11	0.68	0	0.99	0.26	0
	1.96	0.3	0	1.12	0.2	0
	1.72	0.38	0	1.05	0.16	0
	1.93	0.21	0	0.89	0.16	0
	0.39	0.05	1	0.81	0.18	0
	1.73	0.16	0	1.19	0.27	0
	1.4	0.27	1	0.85	0.16	0
n/a	n/a		0 n/a	n/a		0
	1.19	2.02	0	0.82	0.23	0
	1.52	0.25	0	1.26	0.21	0
	1.6	0.45	0	1.01	0.18	0
	1.2	0.31	0	0.96	0.29	0
n/a	n/a		0 n/a	n/a		0
	1.4	0.16	0	0.99	0.27	0
	1.57	0.34	0	1.04	0.26	0
n/a	n/a		0 n/a	n/a		0
	1.6	0.63	0 n/a	n/a		0
	1.37	0.05	0	0.99	0.44	0
	1.61	0.33	0	1.02	0.17	0

	1.08	0.1	1	0.94	0.22	0
	1.85	0.61	0	0.86	0.37	0
	2.19	0.43	0	0.81	0.29	0
	2.23	0.27	0	1	0.29	0
	0.44	0.02	1	0.98	0.29	1
	1.23	0.45	1	1.02	0.5	0
	1.08	0.17	1	0.84	0.19	0
	0.73	0.16	1	0.95	0.43	0
	1.94	0.56	0	0.98	0.14	0
n/a	n/a		0 n/a	n/a		0
	1.9	0.3	0	1.14	0.36	0
	1.71	0.57	0	1.05	0.26	0
	1.44	0.28	0	1.2	0.25	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.17	0.28	0	1.05	0.3	0
	1.87	0.7	0	1.07	0.22	0
n/a	n/a		0 n/a	n/a		0
	2.2	0.15	0	0.81	0.29	0
	0.49	0.11	1	1.07	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.64	0.15	0	0.9	0.27	0
	2.44	0.23	0	1.02	0.19	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.42	0.4	0	0.85	0.29	0
			1	0.93	0.37	0
	1.36	0.25	0	0.98	0.38	0
	1.72	0.44	0	1.01	0.47	0
	1.78	0.82	0	1.04	0.46	0
	2.55	0.66	0	1.34	0.41	0
	1.81	0.55	0	0.99	0.22	0
	1.83	1.06	0	0.93	0.31	0
	0.35	0.14	1	0.9	0.2	1
	1.61	0.35	0	0.83	0.29	0
	1.57	0.31	0	1.15	0.28	0
	0.87	0.06	1	0.96	0.21	0
	0.4	0.09	1	0.87	0.27	1
n/a	n/a		0 n/a	n/a		0
	1.23	0.25	0	0.83	0.27	0
	3.51	0.93	1	1.13	0.58	0
	1.71	0.2	0	1.03	0.29	0
	0.37	0.06	1	0.83	0.27	0
	1.92	0.61	0	0.93	0.24	0
	1.58	0.6	0	0.74	0.19	0
	1.74	0.32	1	0.85	0.23	0
	2.02	0.37	0	0.92	0.09	0
	1.98	0.63	0	1.37	0.32	0
n/a	n/a		0 n/a	n/a		0
			0	1.09	0.37	0
	1.88	0.5	0	0.96	0.39	0
	0.65	0.16	1	0.81	0.17	1

	1.92	0.27	0	1.01	0.16	0
n/a	n/a		0	n/a	n/a	0
	1.15	0.3	0	1.34	0.36	0
	0.9	0.19	1	0.78	0.33	0
	2.02	0.22	0	0.92	0.32	0
	2.49	0.31	0	1.28	0.35	0
			1	1.19	0.22	0
	1.81	0.53	0	1.01	0.31	0
	1.85	0.69	0	0.92	0.35	0
	1.39	0.24	1	0.96	0.51	0
	0.21	0.06	1	0.47	0.12	1
	2.25	0.69	0	0.94	0.32	0
	2.06	1.03	0	0.91	0.16	0
	1.48	0.22	0	0.99	0.19	0
	1.57	0.71	0	0.88	0.13	0
	1.43	0.31	0	1.13	0.37	0
	1.38	0.35	0	0.82	0.37	0
	1.45	0.73	0	0.9	0.36	0
	1.1	0.06	1	1.32	0.29	0
	1.76	0.17	0	0.74	0.91	0
	2.19	0.29	1	0.84	0.21	0
	2.23	0.79	0	0.85	0.46	0
	1.69	0.43	0	0.97	0.45	0
n/a	n/a		0	n/a	n/a	0
	1.41	0.23	0	1.08	0.23	0
	1.63	2.67	0	0.67	0.37	0
	2.57	0.7	0	1.01	0.17	0
	1.42	1.41	0	1.04	0.37	0
n/a	n/a		0	n/a	n/a	0
	2.05	0.64	1	1.12	0.43	0
	1.65	0.09	0	1.12	0.28	0
	0.8	0.28	1	1.02	0.45	0
	1.58	0.17	0	0.83	0.21	0
	1.67	0.17	0	1.17	0.09	0
	1.37	0.27	0	0.99	0.25	0
	0.98	0.08	1	1.16	0.33	0
	2.16	0.53	0	0.96	0.41	0
			0	0.92	0.57	0
			1	1.24	0.33	0
	2.3	0.29	0	1.06	0.18	0
	1.2	0.62	0	1.09	0.22	0
	0.45	0.07	1	0.87	0.26	0
	1.66	0.18	0	0.85	0.19	0
	1.23	1.61	0	1.08	0.2	0
	0.68	0.09	1	0.96	0.2	0
	1.27	0.15	0	1	0.24	0
	1.32	0.26	0	1.07	0.29	0
	1.51	0.47	0	0.89	0.12	0
	0.27	0.01	1	1.17	0.39	1
	2.01	0.15	0	0.92	0.21	0
	0.26	0.07	1	0.93	0.3	1
	1.49	0.08	0	1.05	0.27	0

2.51	0.65	0	1.02	0.2	0
2.26	1.06	0	1.02	0.17	0
1.35	0.17	0	0.98	0.31	0
0.44	0.4	1	0.69	0.49	0
1.74	0.36	0	0.94	0.36	0
1.9	0.6	0	0.91	0.18	0
1.51	0.06	0	0.87	0.28	0
		0	0.85	0.67	0
1.8	0.39	0	0.87	0.15	0
1.29	0.28	1	1.16	0.51	0
2.24	0.85	0	1.07	0.32	0
3.45	1.27	0	1.29	0.57	0
0.45	0.06	1	0.85	0.26	0
1.69	0.36	0	0.97	0.21	0
1.65	0.82	0	0.97	0.23	0
1.85	0.62	0	0.93	0.2	0
0.89	0.23	1	0.8	0.56	0
0.83	0.09	1	0.97	0.35	0
1.11	1.08	0	0.86	0.22	0
		1	0.88	0.16	0
		0	1.07	0.29	0
		1	0.89	0.26	0
1.02	0.28	1	0.72	0.24	0
		0	0.79	0.35	0
1.08	0.34	1	0.82	0.25	0
1.19	0.14	0	1.2	0.21	0
0.79	0.11	1	1.11	0.27	0
1.96	0.12	0	0.88	0.28	0
1.9	0.41	0	0.92	0.22	0
1.7	0.14	0	1.05	0.31	0
1.93	1.02	0	0.96	1.06	0
0.82	2.15	1	1.17	0.26	0
0.33	0.05	1	1.2	0.44	0
0.93	0.36	1	1.06	0.2	0
		1	0.73	0.26	0
1.31	0.44	1	0.98	0.24	0
1.93	2.49	1	0.96	0.31	0
0.9	0.19	1	0.97	0.39	0
0.29	0.11	1	1.1	0.24	0
1.9	0.37	0	1.2	0.29	0
1.39	0.22	0	1.16	0.25	0
1.54	0.29	0	1.13	0.27	0
1.25	0.28	1	0.89	0.19	0
1.63	0.68	0	0.97	0.23	0
2.04	0.6	0	1.02	0.25	0
		1	1.2	0.35	1
n/a	n/a	0	n/a	n/a	0
		0	1.19	0.27	0
2.16	0.65	0	0.95	0.3	0
1.71	0.39	0	0.83	0.23	0
		0	0.89	0.33	0
1.21	0.52	0	1.09	0.25	0

	0.63	0.06	1	1.1	0.31	0
	1.4	0.35	0	0.92	0.14	0
	2.96	0.93	1	1.08	0.21	0
	1.4	0.22	0	0.89	0.26	0
	0.87	0.08	1	0.97	0.25	0
	1.2	0.36	1	0.9	0.15	0
	1.7	0.8	0	1.13	0.31	0
	0.93	0.27	0	1.07	0.39	0
	7.43	1.45	1	6.05	3.11	1
	1.79	0.08	0	1.22	0.7	0
n/a	n/a		0 n/a	n/a		0
	1.62	0.41	0	0.84	0.25	0
	1.35	0.31	0	1.01	0.1	0
	1.43	0.4	0	1.07	0.19	0
	1.22	0.69	0	0.92	0.29	0
	1.68	0.56	0	1.01	0.17	0
	0.36	0.06	1	0.83	0.28	0
	1.1	0.14	0	0.89	0.3	0
n/a	n/a		0 n/a	n/a		0
	1.29	1.03	0	0.84	0.36	0
	1.81	1.02	0	0.84	0.47	0
	1.57	1.23	0	0.98	0.24	0
	1.21	0.23	0	1.06	0.2	0
	1.54	0.9	0	0.79	3.12	0
	1.6	0.03	1	1.08	0.32	0
	1.67	0.17	0	1.13	0.3	0
	1.72	0.13	1	1.19	0.04	0
	2.3	1.18	0	1.03	0.26	0
	1.03	0.11	1	0.92	0.19	0
	2.29	0.62	0	1.12	0.36	0
	1.48	0.23	0	0.97	0.27	0
n/a	n/a		0 n/a	n/a		0
	1.85	0.42	0	0.82	0.18	0
	0.58	0.16	1	0.84	0.22	0
	2.26	0.59	0	1.18	0.34	0
			0	1.82	0.73	0
	0.76	0.1	1	0.96	0.13	0
	2.31	0.32	0	0.96	0.24	0
	1.63	0.31	0	0.89	0.22	0
	1.99	0.17	1	2	0.32	0
n/a	n/a		0 n/a	n/a		0
	1.34	0.62	0	1.1	0.19	0
	0.92	0.66	0	0.99	0.33	0
	0.93	0.4	1	1.26	0.34	0
			1	1.03	0.27	0
	1.79	0.52	0	0.96	0.18	0
	1.62	0.27	0	0.79	0.22	0
	0.92	0.13	1	0.97	0.21	0
	2.27	0.22	0	1.01	0.22	0
			1	1.07	0.33	0
	1.94	0.27	1	0.94	0.18	0
			0	1.21	0.29	0



	2.23	0.47	0	0.9	1.15	0
	0.77	0.18	1	1.06	0.13	1
	2.36	0.56	0	1.13	0.35	0
			1	0.85	0.4	0
	0.15	0.04	1	0.98	0.27	1
	0.83	0.34	1	0.56	0.28	0
	1.86	0.76	0	0.88	0.22	0
	1.67	0.48	0	1.09	0.33	0
	1.9	1.03	0	1.3	0.32	0
	1.95	0.75	0 n/a	n/a		0
	1.36	0.86	1	1.07	0.32	0
	1.68	0.8	0	0.89	0.16	0
	0.4	0.05	1	1.07	0.26	1
	1.42	0.13	1	0.75	0.27	0
	0.96	0.29	1	1.14	0.34	0
	2.48	0.47	0	1.05	0.38	0
	1.4	0.78	1	0.99	0.12	0
	1.57	0.44	0	0.9	0.13	0
	1.87	0.15	1	0.9	0.17	0
	3.12	0.75	0	0.8	0.14	0
	1.72	0.52	0	0.85	0.43	0
	2.09	0.55	0	0.84	0.26	0
	1.8	1.02	0	0.92	0.11	0
	1.51	0.92	0	0.98	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.34	0.73	0	0.91	0.22	0
	1.59	0.33	0	1.21	0.31	0
	0.54	0.1	1	1.25	0.39	0
	0.87	2.41	1	1.07	0.22	0
	2.73	0.69	0	0.95	0.28	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.84	0.79	0	0.86	0.28	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.78	0.34	0	0.92	0.27	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.36	0.06	1	0.93	0.26	1
	0.79	0.24	1	0.53	0.31	1
	0.98	0.18	1	1.14	0.22	0
	1.67	0.39	0	0.74	0.27	0
	0.54	0.13	1	0.84	0.2	1
	1.95	0.48	0	1.02	0.2	0
	1.23	0.59	1	0.84	0.19	0
	2.16	0.33	0	0.9	0.08	0
			1	0.93	0.17	1
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.65	0.33	0	1.02	0.27	0

1.52	0.16	0	1	0.15	0	
2.06	1.05	0	0.89	0.38	0	
1.96	0.75	0	0.86	0.12	0	
1.29	0.46	1	0.99	0.25	0	
2.23	0.49	0	1.07	0.29	0	
1.71	0.3	0	0.9	0.22	0	
8.8	0.68	1	5.12	1.3	1	
2.14	0.33	0	0.83	0.18	0	
1.49	0.12	1	0.95	0.22	0	
2.88	1.39	0	1.09	0.43	0	
1.82	3.28	0	1.12	0.29	0	
2.08	1.16	1	1.35	0.68	0	
1.38	0.4	0	0.85	0.2	0	
1.77	0.79	0	0.79	0.34	0	
1.83	0.28	0	0.73	0.19	0	
1.53	0.55	0	0.87	0.2	0	
1.05	0.47	0	0.87	0.29	0	
1.51	0.71	0	0.87	0.38	0	
3.2	0.79	0	0.87	0.3	0	
2.24	0.67	0	1.03	0.22	0	
0.74	0.11	1	0.75	0.39	1	
2.46	0.74	0	1.06	0.24	0	
1.57	7.01	0	0.83	0.07	0	
1.7	0.65	0	0.83	0.33	0	
1.51	0.75	0	0.94	0.3	0	
0.54	0.15	1	0.89	0.25	0	
1.52	0.77	0	1.44	0.45	0	
0.32	0.15	1	0.73	0.17	1	
1.6	0.33	0	0.91	0.33	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	n/a	0	n/a	n/a	0	
n/a	0.9	0.2	1	1.08	0.3	0
n/a	n/a	0	n/a	n/a	0	
0.54	0.17	1	1.04	0.18	0	
0.47	0.01	1	0.86	0.33	0	
1.89	0.61	1	1.16	0.32	0	
0.47	0.13	1	1.21	0.19	1	
		0	0.88	0.39	0	
0.77	0.1	1	1.84	0.6	1	
1.95	0.36	0	0.84	0.16	0	
1.98	0.47	0	0.92	0.13	0	
		0	1.11	0.2	0	
1.98	0.38	0	0.89	0.37	0	
1.32	0.16	0	0.85	0.71	0	
1.9	0.44	0	1.12	0.21	0	
n/a	n/a	0	n/a	n/a	0	
1.31	0.38	0	0.87	0.21	0	
1.35	0.13	0	1.06	0.22	0	

	1.6	0.24	0	0.98	0.15	0
	1.72	0.61	0	0.97	0.87	0
n/a	n/a		0 n/a	n/a		0
	1.49	0.16	0	1.04	0.25	0
n/a	n/a		0 n/a	n/a		0
	2.17	0.56	0	1.01	0.34	0
n/a	n/a		0 n/a	n/a		0
	2.09	0.91	0	1.08	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.78	0.25	0	0.73	0.21	0
	1.6	0.39	0	1.06	0.36	0
	1.34	0.5	0	1.13	0.18	0
	1.99	0.22	0	1.17	0.35	0
	0.78	0.68	1	0.74	0.22	0
	0.92	0.13	1	0.95	0.35	0
	0.32	0.26	1	1.29	0.22	1
	1.69	0.36	0	0.88	0.2	0
	0.28	0.04	1	0.83	0.19	1
	1.19	0.12	1	1.2	0.19	0
	1.38	0.27	0	1.03	0.32	0
	1.4	0.26	0	1.08	0.19	0
	3.14	0.4	1	1.39	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.76	0.3	0	0.84	0.26	0
n/a	n/a		0 n/a	n/a		0
	1.74	0.32	0	0.89	0.13	0
n/a	n/a		0 n/a	n/a		0
	1.93	0.37	0	1.08	0.3	0
	1.72	0.33	0	1.05	0.76	0
	1.75	0.19	0	0.93	0.12	0
	1.75	0.57	0	0.96	0.14	0
n/a	n/a		0 n/a	n/a		0
	1.39	0.44	0	0.94	0.32	0
			0	1.19	0.29	0
	2.02	0.42	0 n/a	n/a		0
	1.54	0.13	0	0.99	0.25	0
	1.86	0.22	0	0.89	0.14	0
	1.49	0.34	0	1	0.24	0
n/a	n/a		0 n/a	n/a		0
	1.38	1.17	0	0.94	0.74	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	0.62	0.06	1	1.08	0.33	0
	1.74	0.61	0	0.99	0.23	0
	1.78	0.59	0	1.11	0.13	0
	1.93	0.32	0	0.81	0.41	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.47	0.36	0	0.92	0.22	0
	2.01	0.65	0	1.14	0.19	0
	0.55	0.05	1	1.15	0.17	0
	1.86	0.58	0	1.02	0.18	0

	1.22	0.29	1	0.86	0.23	1
			1	1.08	0.25	1
	1.88	0.55	0	1.09	0.22	0
	2.22	0.76	0	1.03	0.19	0
	1.73	0.81	0	0.88	0.62	0
	1.13	0.15	0	0.96	0.15	0
	1.4	0.39	0	0.98	0.52	0
n/a	n/a		0 n/a	n/a		0
	1.47	0.23	0	0.97	0.21	0
			0	0.92	0.25	0
n/a	n/a		0 n/a	n/a		0
	1.66	0.42	0	0.9	0.28	0
	1.46	0.38	0	0.92	0.23	0
	1.76	0.35	0	1.01	0.32	0
	1.93	0.71	0	1.34	0.12	0
	1.99	0.13	0	0.94	0.23	0
	0.34	0.05	1	1.31	0.2	1
	1.38	0.05	1	1.1	0.25	0
	0.74	0.19	1	1.31	0.35	0
	1	0.29	1	0.83	0.23	1
	1.67	0.49	0	1.1	0.13	0
			1	0.93	0.16	0
	1.84	0.25	0	0.8	0.34	0
	0.88	0.17	1	0.74	0.14	0
	0.46	0.12	1	0.95	0.15	1
	1.87	1.01	1	1.06	0.21	0
	1.53	0.12	0	1.01	0.25	0
	2.06	0.2	0	1.15	0.22	0
	1.16	0.15	1	1.1	0.61	0
	1.82	0.15	0	1.2	0.21	0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
n/a	n/a		0 n/a	n/a		0
	1.28	0.86	0	0.93	0.2	0
	0.98	1.28	0	1.24	0.17	0
	0.7	0.15	1	0.97	0.15	0
	1.63	0.1	0	1.13	0.24	0
	1.31	0.18	0	1.05	0.32	0
	1.57	0.45	0	0.9	0.21	0
	2.21	1.88	1	0.96	0.2	0
	1.91	0.41	0	0.97	0.18	0
	1.74	0.34	0	1.07	0.18	0
	1.16	0.18	1	1.02	0.3	0
	2.25	0.66	1	1.06	0.27	0
n/a	n/a		0 n/a	n/a		0
	0.45	0.1	1	1.11	0.4	0
	1.34	0.45	0	0.92	0.32	0
	0.23	0.02	1	0.79	0.23	1
	2.04	0.52	0	0.94	0.19	0
	0.79	0.15	1	0.77	0.12	0
	0.95	0.36	1	1.1	0.17	0
	0.87	0.08	1	1.31	0.35	0

	0.32	0.08	1	0.66	0.17	1
	0.56	0.01	1	1.05	0.11	0
	0.07	0	1	1.11	0.2	1
	0.44	0.1	1	0.91	0.08	1
	1.6	0.28	0	1.53	0.5	0
	1.25	0.12	1	1.01	0.17	0
	0.94	0.06	1	0.97	0.74	0
n/a	n/a		0	n/a	n/a	0
	1.08	0.08	1	1.32	0.32	0
	2.18	0.21	0	1.01	0.17	0
	1.47	0.38	0	0.95	0.17	0
	1.95	0.31	0	1.02	0.31	0
	1.97	0.15	0	0.77	0.65	0
	1.74	0.31	0	0.87	0.21	0
	1.45	0.08	0	1.05	0.17	0
	1.03	0.12	0	0.99	0.42	0
	1.52	0.11	0	1	0.38	0
	1.42	0.19	0	0.84	0.3	0
	1.88	0.34	0	0.82	0.14	0
	1.19	0.35	0	1	0.28	0
	1.23	0.15	0	1.05	0.41	0
	1.62	0.51	0	0.88	0.14	0
	0.76	0.28	1	0.97	0.2	0
	1.79	0.18	0	0.91	0.19	0
n/a	n/a		0	n/a	n/a	0
	1.66	0.22	0	1.03	0.24	0
	1.44	0.44	0	0.94	0.17	0
	1.91	0.64	1	1.95	0.76	0
	1.76	0.28	0	1.2	0.36	0
	0.14	0.05	1	0.72	0.19	1
	1.54	0.11	0	0.81	0.18	0
	1.15	0.15	1	1.05	0.16	0
	1.76	0.45	0	0.8	0.28	0
	0.61	0.1	1	0.94	0.21	0
	0.07	0.02	1	0.68	0.2	1
	0.99	0.17	1	0.89	0.14	0
	1.36	0.07	1	1.25	0.17	0
	1.29	0.26	0	0.98	0.35	0
	0.28	0.03	1	0.78	0.24	1
	0.99	0.09	0	1.38	0.39	0
	0.18	0.03	1	0.73	0.12	1
	1.8	0.35	1	0.88	0.1	0
	1.03	0.05	0	0.9	0.21	0
	1.1	0.25	0	1.04	0.23	0
	1.34	0.24	0	1.07	0.29	0
			1	0.99	0.27	0
			0	1.21	0.21	0
	1.37	0.18	0	0.95	0.19	0
	1.32	0.09	0	0.9	0.27	0
	1.75	0.46	0	0.95	0.42	0
	1.6	0.18	1	0.9	0.19	0
			0	0.93	0.3	0

	1.83	0.15	0	0.9	0.3	0
	1.49	0.8	0	0.92	0.15	0
	1.14	0.47	0	1.71	0.59	0
	0.75	0.27	1	1.2	0.21	0
	0.83	0.1	1	0.7	0.17	0
	1.04	0.61	1	1.14	0.27	0
	0.94	0.42	1	1.07	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.45	0.96	0	0.78	0.23	0
	1.66	0.48	0	0.97	0.15	0
	1.62	0.76	0	1.11	0.27	0
	0.79	0.13	1	0.8	0.28	0
	2.23	0.36	0	0.89	0.22	0
n/a	n/a		0 n/a	n/a		0
	1.86	0.44	0	1.02	0.18	0
	1.76	0.36	0	1.2	0.24	0
	0.79	0.05	1	0.86	0.22	0
	0.75	0.15	1	1.28	0.43	0
n/a	n/a		0 n/a	n/a		0
	1.18	0.12	0	0.97	0.15	0
	1.16	0.09	0	0.86	0.3	0
	0.59	0.1	1	1.6	0.2	0
n/a	n/a		0 n/a	n/a		0
	1.75	0.58	0	0.99	0.28	0
	1.57	0.2	1	1.21	0.33	0
	1.77	0.15	0	0.92	0.31	0
	1.36	0.22	0	0.97	0.31	0
	1.05	0.3	1	1.12	0.3	0
	1.93	0.68	0	1.07	0.32	0
	1.6	0.32	0	1.03	0.35	0
	1.82	0.53	0	0.99	0.21	0
	1.68	0.47	0	1.05	0.33	0
	1.45	0.41	0	1.23	0.24	0
	0.09	0.01	1	0.83	0.22	1
	1.83	0.22	0	1.07	0.15	0
	0.96	0.15	1	1.35	0.22	1
	1.56	0.14	0	1.13	0.51	0
	1.61	0.35	0	1.11	0.14	0
	0.71	0.09	1	1.02	0.24	0
	2.31	0.16	0	1.44	0.88	0
			0	0.96	0.13	0
	1.59	0.22	0	0.99	0.19	0
	1.34	0.25	0	1.11	0.26	0
	2.01	0.32	0	0.83	0.39	0
	0.47	0.13	1	0.92	0.18	0
	1.29	0.17	0	0.97	0.15	0
	1.83	1.06	0	0.95	0.36	0
	1.55	0.1	0	1.08	0.37	0
	1.49	0.44	0	0.92	0.18	0
	1.37	0.6	0	0.93	0.27	0
	0.49	0.07	1	0.62	0.08	1
	1.47	0.72	0	0.79	0.31	0



	1.41	0.03	0	0.85	0.12	0
			0	0.94	0.24	0
	0.32	0.01	1	1.12	0.09	1
	0.69	0.13	0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
	1.45	0.25	0	0.82	0.15	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
			1	0.99	0.17	0
	1.85	0.44	0	0.89	0.16	0
			1	3.64	1.19	0
	1.88	0.55	0	0.98	0.46	0
	1.29	0.22	1	1.29	0.13	0
	1.75	0.36	0	0.9	0.19	0
	1.5	0.45	0	0.87	0.26	0
	0.56	0.04	1	1	0.33	1
	1.46	0.3	0	1.04	0.44	0
	1.66	0.19	1	0.78	0.54	0
	1.48	0.76	0	1.12	0.33	0
	1.56	0.7	0	0.95	0.18	0
	1.7	0.41	0	0.95	0.45	0
	2	0.19	0	0.73	0.15	0
	1.76	0.2	0	1.02	0.12	0
	1.46	0.61	1	0.92	0.17	0
	1.36	0.51	0	0.83	0.15	0
	1.45	0.45	0	1.02	0.16	0
	1.28	0.27	0	2.33	0.94	0
	1.27	0.72	0	1.08	0.22	0
	1.92	0.42	1	1.02	0.4	0
	2.05	0.29	0	0.92	0.15	0
	1.39	0.31	0	1.12	0.17	0
	1.44	1.15	0	0.97	0.26	0
	1.71	0.27	0	1.07	0.3	0
	1.36	0.08	0	1.08	0.29	0
	1.74	0.35	0	0.78	0.2	0
	1.36	0.15	0	0.9	0.38	0
	1.19	0.4	0	1.03	0.2	0
	1.41	0.08	0	0.9	0.3	0
	1.29	0.35	0	0.91	0.19	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
n/a	n/a		0	n/a	n/a	0
			1	1	0	1