

Supplementary Table 1.

Microarray data: 1360 genes showed expression divergence between RM and BY with $P < 0.0005$ or $P > 0.9995$.

ORF	Expression level $\log_2(\text{RM/BY})$	gamma	Average	T score	P-value
ydl055c	-0.3294	-0.0383	14.6400	-7.8844	1E-10
ygr209c	-0.2930	-0.0425	13.7676	-8.9687	1E-10
yil164c	-0.6538	0.0507	8.6570	-9.6674	1E-10
yor153w	-0.6683	-0.3503	13.0797	-10.6428	1E-10
ypl234c	-0.2479	-0.0019	13.1455	-7.0319	9E-10
yil116w	-0.2398	-0.1220	11.0636	-8.1697	2E-09
yol151w	-0.5189	0.0580	9.3615	-8.1275	2.3E-09
yjr062c	-0.2107	-0.1065	10.1640	-8.1108	2.4E-09
ybl111c	-0.7424	-0.0449	8.3902	-8.0134	3E-09
yfl016c	-0.5042	0.0440	9.8426	-7.9221	3.8E-09
ypr147c	-0.2475	-0.1615	10.7937	-7.7573	5.9E-09
yjl190c	-0.6296	0.1026	10.9597	-7.6883	7.1E-09
ycr012w	-0.2609	-0.0225	14.9353	-6.4980	7.9E-09
ylr093c	-0.3164	-0.0303	9.4637	-7.5936	9.1E-09
ylr041w	-0.6039	0.0464	8.3901	-7.4612	1.29E-08
ynl315c	-0.1644	0.0662	9.3340	-7.4609	1.29E-08
ynl007c	-0.5938	-0.0292	11.2518	-7.4434	1.35E-08
ypr145w	-0.2540	-0.3937	11.9515	-7.3502	1.73E-08
ygr282c	-0.3877	-0.1921	12.8480	-7.2716	1.75E-08
ynr068c	-0.4615	0.2483	8.1469	-7.5517	2.01E-08
yol048c	-0.3895	-0.0240	9.5781	-7.2787	2.09E-08
ydr109c	-1.2551	0.0407	9.7202	-7.2615	2.19E-08
ygl002w	-0.8399	0.0285	9.8309	-7.2462	2.28E-08
ybl101w-b	-2.4648	-0.4333	12.3283	-7.1799	2.73E-08
ynl128w	-1.0934	-0.0837	7.7605	-7.7364	2.84E-08
ygr240c	-0.3673	-0.2072	11.2954	-6.1412	3.21E-08
ydr373w	-0.2334	0.0172	10.1536	-7.1181	3.22E-08
yll014w	-0.6186	-0.1783	12.2621	-7.0624	3.75E-08
yer055c	-0.4053	-0.0037	12.1342	-7.0605	3.77E-08
ynl090w	-0.2290	-0.0174	10.2395	-6.9756	4.74E-08
yml007w	-0.3656	0.0238	10.9046	-6.9320	5.33E-08

ygr048w	-0.1810	-0.0113	9.9626	-6.9306	5.35E-08
ygr027w-b	-4.0762	0.0919	11.6752	-6.9249	5.44E-08
yol064c	-0.2035	-0.2027	9.6302	-6.9165	5.56E-08
yjr029w	-3.3327	-0.0442	11.4646	-6.9040	5.75E-08
yor007c	-0.2875	-0.1460	12.1397	-6.9036	5.76E-08
ykr083c	-0.2750	0.2285	8.8558	-6.8955	5.89E-08
yhr055c	-2.0743	0.0072	12.6467	-6.8935	5.92E-08
yer048w-a	-0.6409	-0.1835	10.5704	-6.8800	6.14E-08
yor014w	-0.2386	-0.2163	11.3217	-6.8623	6.44E-08
ybl040c	-0.1959	-0.1097	11.5421	-6.8564	6.55E-08
yol106w	-1.0587	0.0971	11.8688	-6.8499	6.67E-08
ymr050c	-3.6540	-0.0943	11.1726	-6.8459	6.74E-08
ydr264c	-0.4735	0.0220	10.9357	-6.7744	6.92E-08
ydr210w-c	-3.1392	-0.1198	11.4276	-6.8031	7.57E-08
ygr192c	-0.1582	0.0543	14.9014	-5.9163	7.71E-08
ybr274w	-0.5082	-0.0632	10.8873	-6.7872	7.91E-08
ylr381w	-0.4501	-0.0077	8.2813	-6.7844	7.97E-08
yhr053c	-2.0559	-0.0346	12.4637	-6.7815	8.03E-08
ybr158w	-0.6881	-0.2016	10.1500	-6.7813	8.04E-08
ylr102c	-0.5028	-0.0857	9.7097	-6.7798	8.07E-08
ypr094w	-0.4002	0.0476	10.2056	-6.7644	8.42E-08
ylr035c-a	-3.8621	0.3717	13.0476	-6.7632	8.45E-08
ykl067w	-0.2842	-0.2853	12.6841	-6.7595	8.53E-08
ypl257w-a	-2.3158	-0.1963	11.5612	-6.6457	1.17E-07
ydr340w	-2.4896	0.1180	13.3958	-6.6376	1.19E-07
ybl005w-b	-2.1611	-0.2017	12.8745	-6.6360	1.2E-07
yal031c	-0.6037	0.0684	8.5724	-6.6318	1.21E-07
yhr060w	-0.6529	0.1097	9.0054	-6.6268	1.23E-07
ymr051c	-2.4373	-0.1893	10.3283	-6.6240	1.24E-07
ypr105c	-0.3572	0.0328	8.3282	-6.6188	1.25E-07
yml131w	-0.5785	0.0445	9.3325	-6.6110	1.28E-07
ydr261w-b	-2.4267	-0.0426	10.8642	-6.6089	1.29E-07
ykl001c	-0.4645	-0.0498	11.2281	-6.6038	1.31E-07
yel056w	-0.2625	-0.2807	11.6171	-6.5984	1.33E-07
yal044c	-0.5209	-0.0845	11.5163	-6.5948	1.34E-07
ymr074c	-0.2702	-0.2088	11.8373	-6.5903	1.36E-07
ydr316w-a	-2.4450	-0.0582	10.5498	-6.5900	1.36E-07

yhr143w	-1.1808	-0.2744	11.8000	-6.5884	1.36E-07
ycr005c	-0.5917	-0.2880	10.6022	-6.5854	1.38E-07
yer138c	-2.3559	-0.1996	12.0718	-6.5847	1.38E-07
ygl017w	-0.7878	-0.3269	10.2915	-6.5783	1.4E-07
ybr012c	-0.5881	-0.0689	9.4445	-6.5723	1.43E-07
ynl217w	-0.5193	-0.2127	10.5609	-6.5716	1.43E-07
yjl192c	-0.2654	-0.1731	11.1938	-6.5675	1.44E-07
ynl026w	-0.4126	0.0505	9.6731	-6.5486	1.52E-07
yor264w	-0.8560	0.2439	7.9695	-6.5965	1.57E-07
ymr237w	-0.2586	-0.0861	10.3422	-6.5359	1.58E-07
yfl028c	-0.2832	0.0062	10.0130	-6.5344	1.58E-07
ybr204c	-0.3261	0.1258	8.5432	-6.5219	1.64E-07
ykr087c	-0.3985	-0.0137	9.7669	-6.5188	1.65E-07
yor103c	-0.6653	-0.2974	11.7005	-6.5131	1.68E-07
yil015c-a	-0.9393	-0.1116	8.3390	-6.5721	1.68E-07
yjl175w	-0.7131	-0.0698	8.5782	-6.4967	1.76E-07
yml158c-b	-2.1883	-0.0220	11.7327	-6.4965	1.76E-07
yer091c	-0.6279	-0.2661	10.4018	-5.7107	1.78E-07
ykl114c	-0.5011	0.1015	10.0121	-6.4872	1.8E-07
ydr098c-a	-2.4950	-0.2215	10.7034	-6.4870	1.8E-07
ynl284c-b	-3.8871	0.0179	12.0888	-6.4786	1.85E-07
ynl006w	-0.5009	-0.1254	10.7671	-6.4525	1.98E-07
ybr168w	-0.3434	-0.1231	9.8701	-6.4491	2E-07
ypl095c	-0.2069	0.0011	9.6680	-6.4263	2.13E-07
ygr161c-c	-2.5864	-0.1128	10.8070	-6.4185	2.18E-07
ydr315c	-0.9288	0.1597	7.9715	-6.4021	2.28E-07
yml045c	-2.2733	-0.0851	9.8809	-6.3464	2.3E-07
yml043c	-0.2862	-0.2177	14.0231	-6.3981	2.3E-07
yml118c	-0.2920	-0.0675	10.6389	-6.3966	2.31E-07
yml019w	-2.3424	-0.0883	12.9942	-6.3930	2.34E-07
yml385c	-0.2472	0.0739	8.7956	-6.5000	2.41E-07
ydr034c-d	-2.1429	-0.0589	11.5762	-6.3660	2.52E-07
yer137c-a	-2.2145	-0.1316	11.9444	-6.3388	2.72E-07
ygr207c	-0.4107	-0.0162	9.8551	-6.3377	2.72E-07
yjl001w	-0.2350	0.0438	14.2620	-6.3365	2.73E-07
ynl220w	-0.4963	-0.2309	12.2281	-6.3319	2.77E-07
yml227w-b	-3.6438	0.2651	11.3124	-6.3290	2.79E-07

yhl030w	-0.2465	-0.0411	8.9774	-6.3268	2.81E-07
yil080w	-0.7502	0.1404	8.4672	-6.3119	2.93E-07
yor164c	-0.6224	-0.1497	10.7426	-6.3028	3E-07
ymr270c	-0.3008	-0.0066	10.3381	-6.2897	3.11E-07
yar027w	-0.7782	0.0387	10.1165	-6.2875	3.13E-07
ydr513w	-0.3447	-0.0992	11.3319	-6.2842	3.16E-07
yer152c	-0.4201	-0.0456	9.8224	-6.2815	3.18E-07
ypr197c	-0.5995	-0.1102	8.6008	-6.2787	3.21E-07
ydr272w	-0.4417	0.0284	9.6843	-6.2185	3.3E-07
ygr146c	-0.6194	0.0496	9.3745	-6.2661	3.32E-07
ylr359w	-0.5934	-0.1808	12.0338	-6.2508	3.47E-07
ycr020c-a	-0.1950	-0.0123	11.6746	-6.2477	3.5E-07
yll026w	-0.5782	0.1023	11.3562	-6.2475	3.5E-07
yil111w	-0.5593	0.1124	9.4367	-6.2335	3.64E-07
ynr028w	-0.4006	-0.1011	10.2995	-6.1781	3.7E-07
yfl004w	-0.5616	0.0899	10.1476	-6.2255	3.72E-07
ymr041c	-0.2201	-0.0398	9.6025	-6.1745	3.74E-07
yhr214c-b	-3.3800	0.0449	10.6463	-6.2203	3.77E-07
yjr011c	-0.4627	0.0257	8.9831	-6.2685	3.82E-07
ydl243c	-0.2835	0.0794	12.1243	-6.1999	3.99E-07
ydl084w	-0.3471	-0.1844	11.9959	-6.1966	4.03E-07
ymr264w	-0.3079	-0.0981	11.1847	-6.1945	4.05E-07
yml010w	-0.2477	-0.0285	10.3298	-6.1848	4.16E-07
ygl113w	-0.8682	0.0817	9.7573	-6.1820	4.2E-07
yjl181w	-0.3880	0.0426	14.0775	-6.1821	4.2E-07
ylr261c	-0.3290	0.1373	9.2660	-6.2317	4.23E-07
ynl009w	-0.3066	0.0538	9.2178	-6.1716	4.32E-07
yml161w	-0.2298	-0.1783	10.9385	-6.1701	4.34E-07
yer160c	-3.2695	0.1119	11.3407	-6.1608	4.45E-07
ypl147w	-0.4870	0.1869	8.3987	-6.1571	4.5E-07
yal026c	-0.3200	-0.1317	9.8616	-6.1522	4.56E-07
ypl174c	-0.2505	0.2302	8.3071	-6.1402	4.71E-07
ygr206w	-0.3129	-0.1350	10.7934	-6.1362	4.77E-07
yml039w	-2.7637	-0.1040	9.6921	-6.1743	4.94E-07
ygl253w	-0.4031	-0.2481	13.0520	-6.1135	5.08E-07
yml045w	-3.2790	0.1426	11.7409	-6.1134	5.08E-07
yml046c	-2.2541	-0.0356	9.6421	-6.1044	5.21E-07

ylr155c	-3.8458	-0.2876	10.5806	-6.1041	5.21E-07
ydr497c	-0.5697	-0.1099	12.1982	-6.0869	5.47E-07
ydr365w-b	-2.8327	-0.1127	12.1471	-6.0868	5.47E-07
ydr032c	-0.2711	-0.1425	11.6016	-6.0775	5.62E-07
ydr098c-b	-2.8620	-0.1923	9.7810	-6.1103	5.89E-07
ypl092w	-0.5975	-0.0999	9.0573	-6.0560	5.96E-07
yhl050c	-1.0307	0.0408	10.3968	-6.0493	6.08E-07
ymr040w	-0.3625	-0.0973	10.2662	-6.0489	6.08E-07
ynl010w	-0.2384	-0.2261	11.4260	-6.0174	6.64E-07
yil088c	-0.4592	-0.0165	10.1613	-5.9671	6.74E-07
ylr164w	-0.5685	-0.2369	9.1306	-6.0116	6.75E-07
yor306c	-0.7769	-0.0169	8.6129	-6.0071	6.83E-07
ydr510w	-0.2870	0.1184	10.2861	-6.0055	6.87E-07
ygr199w	-0.5561	-0.1351	10.9813	-5.9906	7.16E-07
ydr461w	-0.5316	-0.1766	13.1741	-5.9865	7.24E-07
yel038w	-0.5452	-0.1343	10.6220	-5.9809	7.35E-07
ydr088c	-0.3540	-0.0592	10.3940	-5.9733	7.51E-07
ypl240c	-0.4616	-0.2776	12.6380	-5.9647	7.7E-07
yfl037w	-0.4373	-0.0843	11.4534	-5.9622	7.75E-07
ydr139c	-0.4511	-0.2733	11.5436	-5.9567	7.87E-07
ymr038c	-0.2600	-0.0450	9.3436	-5.9496	8.03E-07
yor189w	-0.4165	0.1149	9.1769	-5.9932	8.11E-07
ymr173w	-0.2770	0.2430	9.0207	-5.9429	8.18E-07
yjr046w	-0.3062	-0.0417	9.7506	-5.9424	8.19E-07
ylr160c	-3.8279	-0.5869	9.4962	-5.9733	8.57E-07
yor090c	-0.2744	-0.0143	9.7998	-5.9243	8.62E-07
ylr089c	-0.6665	-0.0878	11.0665	-5.9237	8.63E-07
yil134w	-0.1535	0.0624	8.6578	-5.9221	8.67E-07
yol088c	-0.8026	-0.0983	9.4136	-5.9159	8.82E-07
ylr290c	-0.2507	-0.0407	9.5390	-5.9134	8.88E-07
yer030w	-0.2538	0.2472	9.3395	-5.9100	8.97E-07
yor024w	-0.4174	0.0118	9.9917	-5.9087	9E-07
ylr158c	-3.6427	-0.2353	9.7186	-5.9548	9.02E-07
yjr148w	-1.6945	-0.1021	10.5048	-5.9055	9.08E-07
ygl186c	-0.3771	-0.0577	10.4902	-5.8976	9.29E-07
ynl036w	-0.3341	-0.1289	9.4027	-5.8911	9.46E-07
yll066c	-0.5853	0.2066	8.1517	-5.8788	9.79E-07

ylr271w	-0.3816	0.0349	9.4498	-5.8329	9.88E-07
yal038w	-0.2004	-0.0379	14.3799	-5.2470	9.95E-07
ygr157w	-0.6133	-0.1353	12.4303	-5.8647	1.02E-06
ynl054w-b	-0.8435	-0.3560	11.7009	-5.8639	1.02E-06
yhl047c	-1.1821	0.0780	7.4960	-5.9094	1.02E-06
yjr073c	-0.3879	0.0950	9.0239	-5.8576	1.04E-06
yjl101c	-0.2110	-0.2788	9.8170	-5.8347	1.11E-06
yil039w	-0.3300	-0.0454	10.0184	-5.8271	1.13E-06
ybl006c	-0.3432	-0.0680	9.8605	-5.8207	1.15E-06
yal037w	-0.2387	0.0536	9.1837	-5.8196	1.16E-06
ylr265c	-0.3069	-0.0940	8.6266	-5.8172	1.16E-06
ydr281c	-0.3375	-0.0693	11.5606	-5.8137	1.17E-06
ykr074w	-0.3702	0.0107	11.7167	-5.7912	1.25E-06
ygr038c-a	-1.7122	-0.0119	10.1427	-5.7903	1.25E-06
ybr012w-a	-1.7544	0.1255	10.0504	-5.7865	1.27E-06
ydr170w-a	-2.4535	-0.0178	11.3948	-5.7849	1.27E-06
yhr045w	-0.1909	-0.0173	9.8332	-5.7828	1.28E-06
ypl019c	-1.1284	-0.0966	10.9335	-5.7826	1.28E-06
ypr158c-d	-3.2882	-0.0895	11.5337	-5.8090	1.35E-06
yor305w	-0.4591	-0.0564	8.6032	-5.7602	1.37E-06
yer103w	-0.6504	-0.1018	12.5555	-5.7111	1.4E-06
ypr109w	-0.1545	-0.0485	10.5680	-5.7351	1.46E-06
ygr279c	-0.2844	-0.1424	12.2616	-5.1436	1.46E-06
ymr186w	-0.3974	-0.2143	11.6585	-5.7140	1.55E-06
yor396w	-0.3572	0.0574	9.5344	-5.7105	1.57E-06
yel040w	-0.2537	-0.1266	10.5166	-5.7102	1.57E-06
yfr025c	-0.2553	0.0880	8.4747	-5.6695	1.58E-06
ymr083w	-0.2164	0.0264	12.7235	-5.1155	1.58E-06
ykl060c	-0.1575	-0.2533	15.4040	-5.1197	1.6E-06
yjl178c	-0.2237	-0.0430	12.5902	-5.6926	1.65E-06
ylr128w	-0.5708	0.0160	8.2877	-5.7277	1.68E-06
ygl257c	-0.5549	0.0903	10.2617	-5.6732	1.74E-06
yjr055w	-0.1327	-0.0679	10.6158	-5.6676	1.77E-06
ypr052c	-0.2464	-0.0117	11.3625	-5.6669	1.77E-06
yol103w-b	-1.7451	0.0303	10.6691	-5.6664	1.78E-06
ygl198w	-0.1612	0.0194	10.0284	-5.6518	1.85E-06
ydr039c	-1.7926	-0.0411	10.8623	-5.6493	1.86E-06

ygl051w	-0.8074	0.0326	10.0554	-5.6338	1.95E-06
ybl005w-a	-1.4650	0.0654	9.9030	-5.6272	1.98E-06
ydl039c	-0.3790	0.0662	10.1458	-5.5865	2E-06
yor142w-b	-2.8286	-0.1332	11.6569	-5.6544	2.06E-06
ybr212w	-0.1899	-0.0013	10.0046	-5.6127	2.07E-06
ypl064c	-0.5919	0.2590	7.4012	-5.6487	2.1E-06
yhr029c	-0.7082	-0.0442	9.4407	-5.6042	2.12E-06
ymr252c	-0.3883	-0.0923	9.2527	-5.6009	2.14E-06
ymr150c	-0.3957	0.0755	10.3944	-5.5978	2.16E-06
yor184w	-0.2842	0.0148	12.0383	-5.5828	2.25E-06
ybr199w	-0.1291	-0.1033	11.4662	-5.5766	2.29E-06
ypl070w	-0.1784	-0.2763	9.7916	-5.5669	2.35E-06
ycl064c	-0.7382	-0.0679	10.2924	-5.5612	2.39E-06
ykl152c	-0.5018	0.0988	14.1140	-5.5545	2.43E-06
ybr293w	-0.2523	0.0068	9.1483	-5.5360	2.57E-06
ydl124w	-0.5205	0.0124	10.0117	-5.5324	2.59E-06
ydr064w	-1.0475	0.1388	14.7041	-5.5286	2.62E-06
yfl066c	-1.3556	0.0169	9.0614	-5.5628	2.66E-06
ydr261c-c	-1.9722	-0.0915	10.1113	-5.5233	2.66E-06
ypr033c	-0.2842	-0.0336	11.4577	-5.4862	2.66E-06
yfr030w	-0.3735	0.0275	8.5732	-5.5224	2.67E-06
yir018w	-0.2544	0.2847	7.5370	-5.6017	2.69E-06
yol103w-a	-1.7170	0.0918	10.7699	-5.5141	2.73E-06
ypl138c	-0.2984	0.1063	9.2119	-5.4747	2.75E-06
ypr006c	-0.3951	-0.0204	9.7407	-5.5060	2.79E-06
yil014w	-0.4433	-0.0565	11.5476	-5.5180	3.01E-06
ybr244w	-0.5085	-0.0711	12.1102	-5.4758	3.04E-06
yjl173c	-0.1979	0.0896	10.1298	-5.4743	3.05E-06
ygr034w	-0.1120	-0.1544	14.9284	-5.4736	3.06E-06
ydr365w-a	-1.4441	0.1494	10.6963	-5.4664	3.12E-06
ybr026c	-0.5098	0.0774	9.5232	-5.4599	3.18E-06
yhr248w	-0.3097	-0.1158	9.8358	-5.4598	3.18E-06
ygr124w	-0.2677	-0.1865	11.4016	-5.4507	3.26E-06
yhr063c	-0.2252	0.0130	9.7899	-5.4433	3.33E-06
yhr136c	-0.9861	-0.0694	8.4411	-5.5207	3.35E-06
ykl207w	-0.5506	-0.0460	11.0156	-5.4281	3.48E-06
ymr174c	-0.3852	-0.0345	11.1109	-5.4230	3.53E-06

ynl066w	-0.6641	0.0487	10.6948	-5.4200	3.56E-06
yel073c	-0.2896	0.0525	9.5132	-5.4167	3.59E-06
ybr056w	-0.2420	0.1434	10.2825	-5.3790	3.62E-06
yjr057w	-0.3644	-0.0616	9.4863	-5.4094	3.67E-06
yel071w	-0.6874	-0.0727	11.7615	-5.3991	3.77E-06
yil118w	-0.1987	0.0105	10.0100	-5.3966	3.8E-06
yll015w	-0.2583	-0.1398	9.9816	-5.3856	3.92E-06
ygl027c	-0.7572	0.0083	8.7718	-5.4214	3.93E-06
ydr365c	-0.4218	0.1241	10.5476	-5.3492	3.94E-06
yar071w	-1.3382	-0.0275	9.7373	-5.3790	3.99E-06
yjl205c-a	-0.3167	0.0510	10.0865	-5.3724	4.07E-06
ypr158c-c	-1.3534	-0.1540	11.4260	-5.3713	4.08E-06
ygr286c	-0.3839	0.0146	9.2859	-5.3707	4.09E-06
ygr142w	-0.3890	0.2305	8.8177	-5.3968	4.21E-06
ybr069c	-0.8633	-0.0840	9.5594	-5.3601	4.21E-06
yjl053w	-0.2804	0.0189	9.0696	-5.3596	4.22E-06
ylr314c	-0.2915	-0.0996	10.1784	-5.3564	4.26E-06
yol143c	-0.4056	-0.0170	12.0435	-5.3459	4.38E-06
yor298c-a	-0.3713	-0.0590	11.8408	-5.3436	4.41E-06
ylr399c	-0.1439	-0.3302	9.1743	-5.3429	4.42E-06
yor197w	-0.9876	-0.0544	10.6143	-5.3402	4.46E-06
ynl039w	-0.2115	0.1643	8.4010	-5.3385	4.48E-06
ygl086w	-0.2280	-0.1107	9.1327	-5.3374	4.49E-06
ylr036c	-0.2432	-0.1431	10.5169	-5.3349	4.52E-06
ylr157c-a	-1.6103	0.0899	10.5128	-5.3670	4.57E-06
ymr295c	-0.5129	-0.3380	11.6158	-5.3287	4.6E-06
ygl022w	-0.2238	-0.2540	11.4920	-5.3216	4.7E-06
yil165c	-0.8974	-0.1141	8.6415	-5.3852	4.84E-06
ydr016c	-0.2627	-0.0263	10.8063	-5.3050	4.92E-06
ykl216w	-0.4302	-0.2844	13.0708	-5.3032	4.95E-06
ydr210w-a	-1.1308	-0.1256	9.2482	-5.2980	5.02E-06
yjl217w	-2.2064	-0.1241	10.8441	-5.3661	5.1E-06
ygl093w	-0.3256	-0.0768	9.2313	-5.2909	5.12E-06
ylr226w	-0.1601	0.0270	11.2471	-5.2908	5.12E-06
ybr081c	-0.5044	0.1509	8.0237	-5.4038	5.16E-06
ybr184w	-0.2531	0.1606	6.9294	-5.2869	5.18E-06
ykl218c	-0.3615	-0.0994	10.1854	-5.2855	5.2E-06

ynl021w	-0.2760	-0.0363	8.9858	-5.2827	5.24E-06
yfl046w	-0.2606	0.1543	8.7974	-5.2709	5.42E-06
ykl072w	-0.2510	0.1857	10.1295	-5.2693	5.44E-06
ymr240c	-0.1115	0.1415	8.9555	-5.3011	5.49E-06
ymr069w	-0.3081	0.1475	7.5588	-5.2973	5.55E-06
ycr099c	-0.3688	-0.0887	8.8628	-5.2600	5.59E-06
ydl109c	-0.8324	0.1213	9.3027	-5.2587	5.61E-06
ymr262w	-0.2752	0.2771	7.8320	-5.2869	5.71E-06
ylr421c	-0.4612	0.0929	11.4669	-5.2484	5.78E-06
yal033w	-0.3091	-0.1608	10.1003	-5.2478	5.78E-06
yfl010c	-0.5704	-0.0591	9.5383	-5.2409	5.9E-06
ybr211c	-0.3041	0.0285	9.0523	-5.2383	5.94E-06
ygl117w	-0.3207	-0.1475	8.7400	-5.2356	5.99E-06
ypl066w	-0.1809	-0.0883	10.2038	-5.2350	6E-06
ybr093c	-0.7815	-0.1284	11.6947	-5.2307	6.07E-06
yjr072c	-0.3946	0.0858	9.0615	-5.2202	6.25E-06
ynr050c	-0.1896	-0.0949	10.8392	-5.2125	6.39E-06
ykr022c	-0.1583	0.1259	9.2154	-5.1930	6.75E-06
ylr097c	-0.1936	0.0797	9.1608	-5.2258	6.77E-06
ydr296w	-0.1259	0.0858	10.0280	-5.1913	6.79E-06
yjl093c	-0.2389	-0.0278	9.0802	-5.1911	6.79E-06
ylr073c	-0.4101	0.0248	10.7295	-5.1901	6.81E-06
ynr067c	-0.9116	-0.0884	8.7389	-5.1876	6.86E-06
ypl233w	-0.3697	0.0401	7.9760	-5.2160	6.96E-06
yil043c	-0.3296	0.0384	11.6438	-5.1731	7.14E-06
yfr057w	-0.8708	0.0849	7.1692	-5.3694	7.19E-06
ydl095w	-0.1352	0.0170	12.0205	-5.1686	7.24E-06
ylr157c	-3.8025	-0.5493	9.6310	-5.2718	7.34E-06
ykr007w	-0.2209	0.0669	8.8579	-5.1597	7.42E-06
ybr067c	-0.8946	-0.1025	12.0853	-5.1592	7.43E-06
ydr481c	-0.8785	-0.2032	10.4203	-5.1562	7.49E-06
ygr274c	-0.2950	0.1361	10.6572	-5.1240	7.53E-06
ygr097w	-0.1624	-0.1014	9.6719	-5.1502	7.62E-06
ymr319c	-0.6580	-0.1344	11.4477	-5.1483	7.66E-06
yer149c	-0.2170	0.0901	9.1511	-5.1456	7.72E-06
ygr254w	-0.1332	0.0234	14.8347	-4.6799	8.03E-06
ygr162w	-0.4528	-0.1036	12.0264	-5.1259	8.16E-06

ymr075w	-0.1850	0.1306	8.9091	-5.1206	8.29E-06
yer136w	-0.2489	-0.3308	10.6934	-5.1142	8.44E-06
ypr058w	-0.2660	-0.1566	10.4570	-5.1092	8.56E-06
yer124c	-2.6804	-0.5020	9.3903	-5.1665	8.8E-06
ynr061c	-0.1584	-0.2561	10.3834	-5.0993	8.8E-06
ypr002c-a	-1.0613	-0.1582	11.2637	-5.0983	8.82E-06
yjl159w	-0.1060	-0.0128	14.9941	-4.6533	8.83E-06
yil117c	-0.3182	0.2213	12.5845	-5.0826	9.22E-06
ydl103c	-0.1798	0.1017	10.0463	-5.0793	9.31E-06
yil121w	-1.4110	-0.1617	9.6796	-5.0740	9.45E-06
ynl040w	-0.3827	-0.1224	8.9684	-5.0664	9.66E-06
ylr274w	-0.3167	-0.0095	9.9914	-5.0623	9.77E-06
ydl008w	-0.1673	0.0862	10.4375	-5.0562	9.94E-06
yel016c	-0.3213	0.0602	8.7018	-5.0870	9.96E-06
yor213c	-0.2845	-0.2472	10.0054	-5.0498	1.01E-05
yil053w	-0.5206	-0.1505	13.6998	-5.0453	1.03E-05
ycl043c	-0.3670	-0.1800	11.5066	-5.0089	1.05E-05
ykr089c	-0.1951	0.0342	8.4885	-5.0287	1.07E-05
ygr026w	-0.2232	-0.0283	12.6276	-5.0267	1.08E-05
ynl046w	-0.5184	-0.0195	9.3849	-5.0216	1.1E-05
ygl012w	-0.1567	-0.0431	11.3518	-5.0113	1.13E-05
ykl055c	-0.2454	-0.0292	8.7699	-5.0096	1.13E-05
ydr403w	-0.2224	0.0128	9.1621	-5.0061	1.14E-05
yor117w	-0.2146	-0.2088	11.4495	-4.9981	1.17E-05
yir043c	-0.9326	-0.3547	8.7976	-5.0210	1.2E-05
ylr096w	-0.2655	-0.0538	9.8568	-4.9893	1.2E-05
ypl099c	-0.1153	-0.1022	9.7034	-4.9892	1.2E-05
ybr005w	-0.1511	-0.0471	12.0828	-4.9881	1.2E-05
yel077c	-1.0264	-0.1901	10.5371	-4.9849	1.22E-05
ypl020c	-0.4174	-0.0021	9.5215	-4.9842	1.22E-05
yal056w	-0.3428	0.0171	9.5084	-4.9836	1.22E-05
yol146w	-0.2805	-0.0533	8.8369	-5.0097	1.23E-05
yol026c	-0.2856	0.0536	9.5022	-4.9779	1.24E-05
ybl101c	-0.2136	-0.1016	9.1606	-4.9738	1.25E-05
yjl144w	-0.3887	-0.0098	9.5586	-5.0032	1.26E-05
yfr047c	-0.3052	-0.0177	10.3632	-4.9728	1.26E-05
ygr039w	-0.3312	-0.1847	8.1824	-4.9721	1.26E-05

ycr082w	-0.2551	-0.0922	9.8520	-4.9688	1.27E-05
ydr046c	-0.3703	-0.0464	11.0009	-4.9682	1.27E-05
ymr059w	-0.3730	-0.2048	8.2228	-4.9678	1.28E-05
ybl032w	-0.2510	-0.0993	12.1949	-4.9482	1.35E-05
ypl080c	-0.3047	0.1265	11.8338	-4.9391	1.38E-05
ynl104c	-0.4238	-0.3344	11.4180	-4.9315	1.41E-05
ykl058w	-0.1288	-0.1042	13.4921	-4.9306	1.42E-05
ylr432w	-0.3936	-0.1402	12.7300	-4.9206	1.46E-05
yhl007c	-0.9624	-0.2322	8.9625	-4.9466	1.47E-05
ygr038w	-0.3731	-0.1373	10.8452	-4.9172	1.47E-05
ymr257c	-0.1932	-0.1212	11.2947	-4.9120	1.49E-05
yfr045w	-0.2609	-0.0115	10.5533	-4.9026	1.53E-05
ydr357c	-0.2979	0.0543	9.5369	-4.8902	1.59E-05
ybr188c	-0.1329	0.0499	10.1224	-4.8880	1.6E-05
yel019c	-0.2287	0.1158	8.1511	-4.9161	1.6E-05
ygl124c	-0.1962	-0.0110	10.6912	-4.8844	1.61E-05
ygr031w	-0.1181	0.1097	9.0016	-4.8822	1.62E-05
ygr296w	-0.3667	-0.1049	9.9213	-4.8814	1.63E-05
ygr208w	-0.1652	-0.1766	11.6150	-4.8813	1.63E-05
ylr171w	-0.2703	-0.3511	9.4662	-4.8780	1.64E-05
yor245c	-0.1824	-0.1331	10.1137	-4.8503	1.65E-05
ygl053w	-0.9141	0.2207	8.6506	-4.8997	1.68E-05
yhr061c	-0.2546	0.0322	9.8099	-4.8705	1.68E-05
yll049w	-0.2046	0.1099	9.3600	-4.8652	1.7E-05
ydr545w	-0.9723	-0.0862	9.2177	-4.8350	1.72E-05
ykr080w	-0.4909	0.0421	9.3603	-4.8594	1.73E-05
yor261c	-0.2224	-0.0823	10.3858	-4.8582	1.74E-05
ylr357w	-0.1397	-0.0366	9.5300	-4.8297	1.75E-05
yml031w	-0.2775	-0.0770	9.6523	-4.8559	1.75E-05
yor111w	-0.1759	-0.1271	13.8476	-4.8557	1.75E-05
ydr452w	-0.3453	-0.0535	9.4988	-4.8510	1.77E-05
ynl018c	-0.2528	0.1944	8.6391	-4.9093	1.78E-05
yhr132w-a	-0.1928	-0.2525	11.0212	-4.8489	1.78E-05
ybr012w-b	-0.4976	-0.0929	11.0917	-4.8375	1.84E-05
ymr312w	-0.1457	-0.0394	9.9336	-4.8081	1.86E-05
ycr090c	-0.2231	-0.0602	11.3138	-4.8286	1.89E-05
yml125c	-0.1239	0.0947	13.4083	-4.8197	1.94E-05

yil078w	-0.2431	-0.0894	11.7261	-4.8153	1.96E-05
yjr007w	-0.3341	-0.1782	11.8810	-4.8145	1.97E-05
ypl060w	-0.2163	-0.0008	8.1836	-4.8413	1.97E-05
yor320c	-0.2061	-0.1833	10.1333	-4.8098	1.99E-05
ynl203c	-0.5072	-0.0294	11.4355	-4.8093	1.99E-05
ynl224c	-0.3579	-0.0425	8.7196	-4.8364	2E-05
ylr138w	-0.1847	-0.0265	10.5594	-4.8073	2.01E-05
ygr057c	-0.3091	-0.1802	10.2167	-4.8071	2.01E-05
yol065c	-0.3736	0.0010	8.3576	-4.8304	2.03E-05
yel052w	-0.2661	-0.1109	9.6051	-3.9478	2.03E-05
ynl284c-a	-1.7914	-0.0240	9.7113	-4.8594	2.04E-05
ylr132c	-0.1458	-0.0459	8.9755	-4.8280	2.05E-05
ygl028c	-0.9795	0.0169	9.1885	-4.8226	2.08E-05
ylr396c	-0.5989	-0.0814	10.0456	-4.7941	2.08E-05
ykr088c	-0.1756	-0.1778	11.2655	-4.7886	2.11E-05
ynl339c	-0.5179	0.2488	7.7636	-4.7861	2.13E-05
ygr223c	-0.3329	0.0602	8.3078	-4.8100	2.15E-05
ygl214w	-0.3991	0.3418	7.9802	-4.7797	2.17E-05
yjr147w	-0.6419	-0.1580	9.0310	-4.8051	2.18E-05
ykl007w	-0.2574	-0.1447	10.7607	-4.7667	2.25E-05
ybr196c	-0.2118	-0.1356	13.8214	-4.3866	2.27E-05
yhr028c	-0.8015	-0.1570	9.0370	-4.7572	2.31E-05
yer186c	-0.1301	-0.0726	10.9146	-4.7562	2.32E-05
yhr054c	-0.4708	-0.2204	9.7313	-4.7516	2.35E-05
yjr060w	-0.7256	0.0299	9.3975	-4.7515	2.35E-05
ydr137w	-0.0966	-0.0160	9.4860	-4.7495	2.36E-05
ynl094w	-0.3052	-0.2037	8.7172	-4.8045	2.37E-05
yer185w	-0.1719	-0.0272	9.1052	-4.7231	2.37E-05
ydl029w	-0.2622	-0.0141	10.8409	-4.7468	2.38E-05
yjr024c	-0.2157	0.0847	11.3357	-4.7459	2.39E-05
ydr100w	-0.2639	-0.0116	11.1173	-4.7366	2.45E-05
ygl090w	-0.1314	0.1270	8.7175	-4.7538	2.51E-05
ypl283c	-0.2782	-0.1150	10.1485	-4.7266	2.52E-05
ydl205c	-0.4448	0.1465	9.0098	-4.7213	2.56E-05
ybr129c	-0.3258	-0.0921	11.1751	-4.7164	2.59E-05
ylr285w	-0.2142	-0.0841	10.3485	-4.7147	2.6E-05
yjl044c	-0.2806	-0.1079	10.4830	-4.6878	2.62E-05

ykr004c	-0.2271	-0.0843	8.7015	-4.7114	2.63E-05
ykl174c	-0.5259	0.0164	9.9080	-4.7113	2.63E-05
ypl250c	-0.3940	-0.0864	8.3417	-4.7292	2.69E-05
ykl210w	-0.2638	-0.1859	11.5088	-4.6741	2.73E-05
ydr459c	-0.1666	-0.1632	10.4609	-4.6947	2.75E-05
yor011w	-0.2337	0.0475	8.6537	-4.6853	2.83E-05
ykl194c	-0.2602	0.0265	7.7720	-4.7012	2.91E-05
ygr044c	-0.2052	0.0306	10.2365	-4.6686	2.96E-05
yir030c	-0.3530	0.3864	6.9596	-4.7199	2.98E-05
ylr100w	-0.1468	0.0200	13.0950	-4.6630	3.01E-05
yar028w	-0.5892	-0.0350	9.4455	-4.6597	3.04E-05
ydl162c	-0.2485	0.0792	11.4942	-4.6523	3.1E-05
ylr286c	-1.1891	-0.1102	12.3852	-4.6515	3.11E-05
yll016w	-0.5648	0.1220	8.8955	-4.6456	3.16E-05
yjr133w	-0.1374	0.0570	12.0595	-4.6426	3.19E-05
ymr119w	-0.2912	-0.0873	9.6292	-4.6344	3.26E-05
yor221c	-0.3182	-0.0471	7.8458	-4.7397	3.34E-05
ynr065c	-0.4644	0.0569	8.8786	-4.6055	3.54E-05
ydr400w	-0.3389	-0.1670	9.8896	-4.6054	3.54E-05
ydr518w	-0.2658	0.0808	10.5960	-4.5985	3.61E-05
yhr150w	-0.3627	0.1268	8.0269	-4.5982	3.61E-05
ypl156c	-0.2212	-0.0877	8.8137	-4.6225	3.62E-05
ykr062w	-0.1682	-0.0954	10.1251	-4.5966	3.63E-05
ypr154w	-0.1091	-0.1533	11.0379	-4.5904	3.69E-05
ydl089w	-0.2588	0.2387	8.4765	-4.5850	3.75E-05
ydr483w	-0.2412	-0.2318	11.8775	-4.5763	3.84E-05
yll005c	-0.1735	0.0965	9.0816	-4.5709	3.9E-05
yml015c	-0.1449	0.0559	9.2365	-4.5911	3.95E-05
ydr210w-d	-2.0475	-0.1648	10.7546	-4.5659	3.96E-05
ybr101c	-0.3502	-0.1936	11.4049	-4.5642	3.98E-05
ylr462w	-0.5455	-0.2712	7.8122	-4.5844	4.02E-05
yor246c	-0.1479	-0.0963	11.1567	-4.5537	4.09E-05
ylr035c	-0.1939	0.0854	7.3615	-4.2196	4.13E-05
ydr033w	-1.2730	-0.2701	12.6571	-4.5502	4.14E-05
ymr278w	-0.4199	0.1666	9.1709	-4.5392	4.26E-05
yhr146w	-0.2645	0.0595	9.9082	-4.5374	4.29E-05
ypl206c	-0.2951	-0.1489	11.2434	-4.5197	4.5E-05

yer015w	-0.2293	-0.0175	8.6682	-4.5132	4.59E-05
ypl195w	-0.1638	0.1039	9.9419	-4.5090	4.64E-05
ygr041w	-0.2861	0.0217	8.2630	-4.5303	4.67E-05
ygr046w	-0.1845	-0.0242	11.1879	-4.5034	4.71E-05
ygr204w	-0.3073	0.0611	9.5589	-4.5032	4.72E-05
yel053c	-0.2457	0.0489	10.2348	-4.4971	4.8E-05
yor283w	-0.2942	0.1503	9.7286	-4.4951	4.82E-05
ygl166w	-0.2902	0.0810	8.3457	-4.4730	4.83E-05
ymr241w	-0.2245	-0.1968	12.8058	-4.4943	4.84E-05
ylr080w	-0.3585	0.3288	7.0773	-4.4891	4.91E-05
yhl027w	-0.1893	0.0767	9.5966	-4.4889	4.91E-05
yil029c	-0.2262	0.1015	7.9283	-4.5102	4.94E-05
ydr135c	-0.3159	-0.1159	9.6018	-4.4847	4.97E-05
yer167w	-0.3117	0.0616	9.1725	-4.4833	4.99E-05
yar015w	-0.3753	0.0363	9.0739	-4.4816	5.01E-05
ymr119w-a	-0.4506	-0.1199	10.3519	-4.4752	5.1E-05
ydr319c	-0.0981	-0.0994	11.4023	-4.4739	5.12E-05
ykl145w	-0.1546	0.0189	9.8976	-4.4697	5.18E-05
ydr506c	-0.2715	0.0941	9.4356	-4.4612	5.31E-05
yml106w	-0.3865	-0.3829	13.0698	-4.4608	5.31E-05
yor357c	-0.1241	0.0358	9.9016	-4.4597	5.33E-05
yll067c	-0.6027	0.1433	8.4678	-4.4542	5.41E-05
ylr058c	-0.1385	-0.0997	11.6791	-4.1328	5.47E-05
ydr353w	-0.2510	-0.1565	12.2727	-4.4479	5.51E-05
ybr256c	-0.1877	0.1335	10.6955	-4.4456	5.54E-05
ylr355c	-0.4135	-0.1604	13.5285	-4.4406	5.62E-05
ydl197c	-0.2478	0.3215	8.0182	-4.4631	5.62E-05
ydr393w	-0.1835	0.0779	8.8143	-4.4398	5.63E-05
ynl118c	-0.1130	-0.0065	10.1337	-4.4331	5.74E-05
ygl229c	-0.2993	0.1552	9.8422	-4.4328	5.74E-05
ydr082w	-0.2515	0.0919	8.0451	-4.4465	5.89E-05
ynl265c	-0.2728	-0.0011	8.9150	-4.4227	5.91E-05
yor049c	-0.0976	0.0064	8.8206	-3.5924	5.97E-05
ygr024c	-0.2128	-0.1331	10.7670	-4.4124	6.08E-05
yer159c-a	-1.8974	-0.2067	8.9298	-4.4290	6.18E-05
ykr014c	-0.2068	0.1275	12.2654	-4.4049	6.21E-05
ynl208w	-0.1463	-0.1082	13.3872	-4.4041	6.23E-05

yhr071w	-0.3671	0.1068	9.2161	-4.4015	6.27E-05
ydr034c-a	-0.9877	-0.2071	9.5647	-4.4006	6.29E-05
ypl201c	-0.3147	0.0455	8.4495	-4.3937	6.41E-05
yfr055w	-0.5501	-0.0288	10.4440	-4.4118	6.48E-05
yhr215w	-1.1417	-0.0826	10.2015	-4.3835	6.59E-05
ydl100c	-0.1415	-0.0456	11.7864	-4.3825	6.61E-05
ybr145w	-0.2400	0.0119	10.8892	-4.3768	6.72E-05
ygl163c	-0.2307	0.2093	8.4860	-4.3744	6.76E-05
yol104c	-0.6156	0.0312	9.2882	-4.3960	6.77E-05
ydr508c	-0.2941	-0.1752	13.8817	-4.3678	6.89E-05
ybl050w	-0.1621	0.0403	11.4072	-4.3574	7.09E-05
yil002c	-0.2136	-0.1036	11.4598	-4.3563	7.11E-05
ydr538w	-0.1371	0.1723	11.9869	-4.3562	7.12E-05
ykr070w	-0.3615	0.1293	9.6982	-4.3514	7.21E-05
ylr216c	-0.1560	-0.2107	11.1271	-4.3427	7.39E-05
ybr096w	-0.2236	-0.0785	11.1971	-4.3375	7.5E-05
ylr079w	-0.2090	0.1054	9.4723	-4.3338	7.57E-05
yjr039w	-0.1246	0.0242	8.2054	-4.3500	7.68E-05
yor253w	-0.2370	-0.1467	11.7236	-4.3086	7.7E-05
ykl103c	-0.4928	-0.0378	8.8796	-4.3238	7.79E-05
ybr011c	-0.1437	0.0754	11.5211	-4.0282	7.91E-05
ypr095c	-0.1530	0.0455	10.9508	-4.3032	8.25E-05
yol082w	-0.2026	-0.0082	8.3110	-4.3164	8.42E-05
ymr022w	-0.2252	0.0200	11.4182	-4.2931	8.48E-05
ylr107w	-0.1836	-0.0039	9.5166	-4.2883	8.6E-05
yjl012c	-0.4729	-0.0519	10.2046	-4.2866	8.64E-05
yhl018w	-0.2392	0.3897	7.2206	-4.3016	8.77E-05
ydl200c	-0.2803	-0.0279	9.1243	-4.2960	8.91E-05
ypl272c	-0.1182	0.0376	9.0703	-4.2682	9.09E-05
ycr096c	-0.1597	-0.0477	11.8181	-4.2667	9.13E-05
ynr021w	-0.1864	-0.0635	11.9461	-4.2658	9.15E-05
yjl091c	-0.1828	-0.0179	9.9214	-4.2645	9.19E-05
ydr417c	-0.2607	-0.0002	11.2349	-4.2643	9.19E-05
ylr040c	-0.1302	-0.0534	8.5399	-4.2465	9.66E-05
ymr149w	-0.2985	-0.1727	11.3888	-4.2406	9.82E-05
ygl052w	-0.3453	0.0860	8.2585	-4.2364	9.93E-05
yer063w	-0.2172	-0.0350	10.2264	-4.2556	9.95E-05

ypr097w	-0.1492	-0.2135	9.7211	-4.2338	0.0001
yol057w	-0.2023	-0.0652	11.2560	-4.2316	0.000101
ypl264c	-0.9704	-0.3815	8.6202	-4.3431	0.000102
ygr141w	-0.1089	-0.1483	12.2835	-4.2252	0.000102
yer061c	-0.1367	0.0467	10.5717	-4.2186	0.000104
ydr108w	-0.1638	0.0685	9.0618	-4.2174	0.000105
ygr267c	-0.1968	0.1190	11.4256	-4.2141	0.000106
ykl012w	-0.2501	0.0978	8.6611	-4.2126	0.000106
ylr104w	-0.1174	0.0750	10.4720	-4.2126	0.000106
yol086c	-0.3057	-0.1376	13.8394	-4.2062	0.000108
ykl040c	-0.1776	-0.0148	10.1148	-4.2011	0.00011
ylr011w	-0.3888	0.1271	8.4347	-4.2205	0.00011
yjr025c	-0.6182	-0.0376	9.5136	-4.1935	0.000112
ydr076w	-0.2182	-0.1105	8.6145	-4.2026	0.000115
yml079w	-0.2008	0.1118	9.4133	-4.1766	0.000117
ybr198c	-0.1331	-0.0430	9.7221	-4.1745	0.000118
ygl248w	-0.1647	0.0010	8.7426	-4.1561	0.000118
yel049w	-0.1481	-0.0104	10.3382	-4.1690	0.00012
ylr467w	-0.2835	0.0899	8.1652	-4.1684	0.00012
ynl188w	-0.1871	0.2285	9.1736	-4.1671	0.00012
ynl326c	-0.2108	-0.0669	9.9055	-4.1583	0.000123
ymr197c	-0.2607	0.2109	9.0409	-4.1967	0.000124
yhr094c	-0.7113	-0.4664	10.0144	-4.1566	0.000124
ydl237w	-0.2651	-0.0565	10.3696	-4.1373	0.000125
ypr099c	-0.4689	-0.0586	8.4261	-4.2126	0.000126
ydl177c	-0.1652	0.0012	9.0296	-4.1508	0.000126
yjr156c	-0.1582	0.3012	7.8454	-4.1668	0.000127
ycl048w	-0.3275	0.2527	7.9954	-4.1464	0.000128
ygl009c	-0.3737	-0.0370	11.2030	-4.1448	0.000128
ylr223c	-0.1726	0.1844	8.9221	-4.1423	0.000129
ykl196c	-0.2179	-0.0432	10.9636	-4.1383	0.00013
yor169c	-0.3599	-0.2191	7.8053	-4.1769	0.000131
ypl060c-a	-0.4456	-0.0258	6.7474	-4.1768	0.000131
ypr088c	-0.2077	0.0515	9.6824	-4.1202	0.000131
yol149w	-0.1768	-0.1677	10.7800	-4.1350	0.000132
ylr264w	-0.1576	0.0520	14.6686	-4.1273	0.000134
yol129w	-0.1736	-0.0025	12.2236	-4.1050	0.000136

yil123w	-0.1911	0.0747	11.2612	-4.1221	0.000136
ynl323w	-0.1089	-0.0308	11.4147	-4.1209	0.000137
yir033w	-0.3188	-0.0588	8.9753	-4.1377	0.000137
yhr044c	-0.6954	-0.1069	9.7148	-4.1191	0.000138
ymr139w	-0.1597	-0.1649	9.4660	-4.1347	0.000139
yer154w	-0.1742	0.1626	9.4388	-4.1276	0.000141
ycr004c	-0.2176	0.0530	10.5120	-4.1078	0.000142
ynl297c	-0.3987	-0.2449	9.5558	-4.1223	0.000143
yor023c	-0.1095	0.0550	10.0773	-4.1021	0.000144
yhr179w	-0.4478	0.0503	11.6941	-4.1016	0.000144
yer051w	-0.1797	0.0058	8.5652	-4.0932	0.000148
ydr355c	-0.3368	-0.0702	9.3096	-4.0880	0.00015
ykr066c	-0.2302	-0.0818	10.4539	-4.0859	0.000151
ydl182w	-0.1075	0.0362	11.3117	-4.0853	0.000151
ylr228c	-0.2501	-0.3096	8.9590	-4.0835	0.000152
yel013w	-0.3856	-0.1960	10.1663	-4.0800	0.000153
yil124w	-0.3149	-0.1506	9.6765	-4.0774	0.000154
ydr017c	-0.1153	0.0032	8.7584	-4.0763	0.000155
yor284w	-0.2322	-0.0411	9.8623	-4.0762	0.000155
yfl039c	-0.1489	-0.1470	13.1775	-3.8183	0.000157
ycr011c	-0.2772	-0.1916	10.4430	-4.0720	0.000157
yor317w	-0.2795	-0.0060	9.5741	-4.0625	0.000161
ycr053w	-0.2317	-0.0806	12.8496	-4.0536	0.000165
yel048c	-0.1408	0.0294	12.5340	-4.0493	0.000167
ydr014w	-0.1548	-0.0294	8.6004	-4.0486	0.000167
ydr350c	-0.1880	-0.0350	8.4746	-4.0663	0.000167
ygl204c	-0.4103	-0.2949	9.2844	-4.0477	0.000167
ydr179w-a	-0.2655	-0.0419	10.2708	-4.0451	0.000169
yil108w	-0.2782	0.0020	9.6626	-4.0421	0.00017
ybl002w	-0.2073	0.0351	11.8088	-4.0414	0.00017
yor230w	-0.3485	-0.1107	10.8110	-4.0389	0.000172
ypl268w	-0.1097	-0.1508	10.9939	-4.0375	0.000172
ydr038c	-0.7853	-0.0408	8.9897	-4.0491	0.000175
ylr292c	-0.2230	0.0238	11.1071	-4.0307	0.000175
yol110w	-0.2296	0.1070	10.6568	-4.0274	0.000177
ykr101w	-0.2181	0.2687	8.8917	-4.0131	0.000184
ydr204w	-0.1486	-0.1081	9.3565	-4.0126	0.000184

ykr042w	-0.1755	0.0065	11.2204	-4.0123	0.000185
ydr229w	-0.2468	-0.0650	9.7909	-4.0052	0.000188
ybr175w	-0.1755	-0.0328	8.9785	-3.9983	0.000192
ymr318c	-0.4794	-0.1642	11.9498	-3.9944	0.000194
ygl202w	-0.2069	-0.2132	11.0602	-3.9942	0.000194
ydr224w	-1.1647	-0.2377	11.4996	-6.4574	0.000196
ydr370c	-0.1562	-0.0630	9.8572	-3.9785	0.000203
ydr311w	-0.1342	0.3421	8.1625	-3.9761	0.000204
yml092c	-0.1073	-0.0657	10.9629	-3.9692	0.000208
yil125w	-0.1542	-0.1992	11.0732	-3.9679	0.000209
yil177c	-0.6495	-0.2253	11.3344	-3.9656	0.00021
yel051w	-0.1452	0.0012	11.7971	-3.9590	0.000214
yjl080c	-0.0969	-0.0582	12.2621	-3.9562	0.000215
yjl184w	-0.1396	0.1989	9.6243	-3.9703	0.000217
ykl132c	-0.1954	-0.0005	8.7956	-3.9519	0.000218
yer142c	-0.2472	-0.0906	9.5235	-3.9432	0.000223
yfr040w	-0.1068	-0.1238	10.6708	-3.9424	0.000224
ydr330w	-0.2645	0.2261	10.3263	-3.9371	0.000227
ygl006w	-0.1326	-0.1097	10.6801	-3.9355	0.000228
ybr053c	-0.2996	0.0212	9.0400	-3.9298	0.000231
ydl105w	-0.2205	-0.2204	9.4729	-3.9293	0.000232
ydl120w	-0.4661	0.0396	9.8710	-3.9290	0.000232
ydl189w	-0.1368	0.1273	9.9009	-3.9272	0.000233
yjl225c	-0.5939	-0.2495	11.6312	-3.9271	0.000233
yor148c	-0.2067	0.0531	11.5416	-3.9269	0.000233
yhr038w	-0.1927	-0.0385	9.0343	-3.9169	0.00024
ydr075c	-0.4320	-0.3618	9.8191	-3.9323	0.00024
ybr276c	-0.1098	-0.1214	11.1069	-3.9146	0.000241
ykl008c	-0.3160	-0.0419	10.9493	-3.9074	0.000246
ydr410w-b	-0.2772	-0.0457	9.4046	-3.9047	0.000248
yol090w	-0.1390	0.1261	11.1385	-3.8992	0.000252
yol119c	-0.2953	-0.0931	9.9536	-3.8933	0.000256
ynl103w	-0.1515	-0.0256	9.3810	-3.8914	0.000257
ygl103w	-0.1891	-0.0721	15.3939	-3.8903	0.000258
ykr036c	-0.2737	0.1182	7.9617	-3.8900	0.000258
yhl008c	-0.2512	0.0101	9.0175	-3.8879	0.00026
ydr020w	-0.3066	-0.0016	8.8726	-3.8878	0.00026

ygr109w-b	-0.2764	0.1371	8.1684	-3.8841	0.000262
yjl002c	-0.2661	-0.0939	10.5644	-3.8806	0.000265
yil082w-a	-0.3729	0.2272	7.6933	-3.9641	0.000272
ypr062w	-0.1059	0.0477	14.5859	-3.8686	0.000274
ylr309c	-0.1668	-0.1024	9.5709	-3.8675	0.000274
ynl287w	-0.0963	-0.1564	11.1598	-3.8662	0.000275
ymr209c	-0.2183	0.0864	9.6629	-3.8603	0.00028
yor155c	-0.2156	-0.0912	9.8622	-3.8439	0.000281
ygr129w	-0.1120	0.2277	8.9100	-3.8537	0.000285
yol103w	-0.1964	-0.0059	10.4050	-3.8511	0.000287
yor019w	-0.2982	-0.0600	7.7589	-3.8662	0.000287
ynl189w	-0.1435	-0.2111	11.8743	-3.8397	0.000296
ydr372c	-0.2070	-0.2582	12.5474	-3.8362	0.000299
ykl121w	-0.1146	0.1736	8.7310	-3.8179	0.000302
ydr540c	-0.4045	0.2295	7.2082	-3.8801	0.000304
ybl017c	-0.1444	-0.0121	10.5364	-3.8239	0.000309
ymr316w	-0.4569	0.1238	9.3431	-3.8384	0.00031
ymr189w	-0.2590	0.1350	8.9324	-3.8376	0.00031
ykl077w	-0.1420	-0.2715	11.6138	-3.8112	0.00032
yol068c	-0.1546	-0.0757	10.9829	-3.8108	0.00032
ycl029c	-0.2048	0.3933	9.8447	-3.8051	0.000325
yer018c	-0.2323	0.3887	7.6202	-3.8194	0.000326
yjl031c	-0.2080	-0.0047	9.6291	-3.8026	0.000327
yil172c	-0.1384	-0.1330	13.1181	-3.7872	0.000329
yjr082c	-0.2531	-0.0081	10.2926	-3.8008	0.000329
yjr056c	-0.0867	-0.0077	9.6257	-3.7970	0.000332
ydr124w	-0.2460	0.1522	9.1130	-3.7936	0.000336
ynl121c	-0.2510	-0.1209	10.3068	-3.7877	0.000341
ydr423c	-0.2638	0.3851	7.6139	-3.7825	0.000346
ypl090c	-0.1228	-0.0217	15.4698	-3.7817	0.000347
ydr186c	-0.1956	-0.0174	9.3165	-3.7642	0.00035
yor256c	-0.1906	-0.1207	9.3256	-3.7693	0.000358
yor030w	-0.1644	0.1689	8.4667	-3.7672	0.00036
ypl106c	-0.2472	-0.0936	12.1954	-3.7632	0.000364
yor018w	-0.1360	0.0962	8.7063	-3.7555	0.000372
yar050w	-0.1828	0.0371	10.0179	-3.7389	0.000375
ypl255w	-0.1193	0.0599	10.0800	-3.7506	0.000377

yjr137c	-0.1636	-0.0844	9.8608	-3.7478	0.00038
ynl079c	-0.1644	0.0286	11.9326	-3.7380	0.00039
yel058w	-0.1399	-0.1603	11.5468	-3.7314	0.000397
ypr032w	-0.1770	0.1127	8.8491	-3.7309	0.000398
yal015c	-0.1771	0.0517	9.5327	-3.7149	0.000401
ybr259w	-0.1250	-0.4327	8.2915	-3.7264	0.000403
yhr074w	-0.2904	-0.4014	9.2910	-3.7262	0.000403
ygr047c	-0.1714	0.1227	11.0337	-3.7238	0.000405
ydr232w	-0.1952	-0.0341	10.1213	-3.7234	0.000406
ylr417w	-0.2856	-0.0121	8.8398	-3.7370	0.000406
ypl157w	-0.1012	-0.0048	9.7769	-3.7214	0.000408
ydl149w	-0.2061	-0.0594	9.3952	-3.7152	0.000415
yhl025w	-0.1463	0.0138	9.8181	-3.7134	0.000417
ylr244c	-0.2111	-0.0281	9.9293	-3.7099	0.000421
ycr002c	-0.0901	0.0135	10.0353	-3.7068	0.000424
ydl070w	-0.2762	-0.0167	11.2365	-3.7066	0.000425
ycr009c	-0.1242	-0.2118	11.2820	-3.7064	0.000425
ymr044w	-0.2675	0.0464	8.6053	-3.7340	0.000427
yer059w	-0.1328	-0.0283	10.1465	-3.7044	0.000427
ygr168c	-0.1597	-0.0010	9.7708	-3.7039	0.000428
ylr049c	-0.1686	-0.0941	9.5198	-3.7033	0.000428
yhl039w	-0.2062	0.0279	11.9533	-3.6997	0.000433
yhr025w	-0.3571	0.0501	10.1250	-3.6844	0.000435
ylr108c	-0.2944	0.0856	8.9040	-3.7084	0.000439
yjr085c	-0.2051	-0.0455	13.9630	-3.6928	0.000441
yar073w	-0.3083	-0.1384	12.0571	-3.6901	0.000444
ynr045w	-0.0954	-0.2205	10.1690	-3.6880	0.000447
ydl097c	-0.1203	-0.0351	10.9810	-3.6870	0.000448
ynl017c	-0.1682	-0.0824	8.7140	-3.6993	0.00045
ykr081c	-0.1892	0.0997	9.7582	-3.6812	0.000455
yal002w	-0.1402	0.0470	9.0418	-3.6537	0.000473
ynl145w	-0.2762	0.2011	12.8231	-3.6662	0.000473
yer107c	-0.1390	-0.0717	10.1666	-3.6529	0.000474
yll050c	-0.1653	-0.2064	14.0277	-3.6655	0.000474
ypl054w	-0.2838	-0.3682	7.5801	-3.7069	0.000478
ygr130c	-0.1992	0.0723	10.1981	-5.3110	0.000484
ybr162c	-0.2067	-0.1251	12.3615	-3.6538	0.00049

ycr018c	-0.2647	0.1547	12.2142	-3.6531	0.000491
ylr300w	-0.2328	-0.3924	12.8281	-3.6509	0.000493
ylr006c	0.1321	-0.0634	9.6834	3.6494	0.999505
yjl024c	0.1871	-0.0841	9.9696	3.6500	0.999505
ylr409c	0.1644	-0.0106	10.1120	3.6648	0.999507
yil143c	0.2183	0.2992	8.1228	3.6959	0.999508
ydl094c	0.2658	0.0560	7.8290	3.6667	0.99951
ynl283c	0.2768	-0.1720	10.0866	3.6534	0.99951
ybr149w	0.1771	-0.0308	10.3364	3.6573	0.999515
ycl028w	0.1234	-0.0002	11.2967	3.6606	0.999519
yhl040c	0.5093	0.3040	8.1118	3.7085	0.999524
ydl104c	0.1325	-0.0304	9.3753	3.6672	0.999528
yhr089c	0.1798	0.0747	12.4626	3.6674	0.999528
ynl184c	0.2279	-0.0947	10.0150	3.6688	0.99953
ydr178w	0.3071	0.0221	11.1657	3.6716	0.999533
ycl052c	0.2350	0.0357	9.9120	3.6778	0.999541
ydr165w	0.2667	0.1770	11.2671	3.6784	0.999542
ydl132w	0.1837	-0.0150	9.4308	3.6948	0.999545
yar020c	0.2108	-0.0824	10.9267	3.6696	0.999547
yjr050w	0.1174	0.0510	9.3479	3.6840	0.999549
ydr541c	0.2797	-0.3738	8.0333	3.7336	0.999554
ygr187c	0.3754	0.1068	9.8740	3.6903	0.999556
yjl103c	0.2106	0.0537	9.8950	3.6916	0.999558
yjl139c	0.2159	0.1049	8.4951	3.7031	0.999571
ydr405w	0.1762	-0.1734	9.2750	3.7032	0.999571
yhr173c	0.3803	0.0818	11.5427	3.7189	0.999573
ygl111w	0.1521	0.1564	9.6209	3.7128	0.999582
ymr250w	0.2763	0.0446	9.2842	3.7142	0.999584
ygl114w	0.1839	-0.0430	9.5154	3.7186	0.999589
ybr076w	0.1603	-0.1089	13.0700	3.7213	0.999592
ybr072w	0.1314	0.0916	8.9289	3.7239	0.999595
yer168c	0.2583	0.1273	9.4327	3.7505	0.999608
ydr496c	0.2069	-0.1262	10.1437	3.7384	0.99961
ynl160w	0.7356	-0.1348	9.7262	3.7555	0.999613
yml054c	0.1405	0.0829	9.6908	3.7426	0.999615
yhr144c	0.2048	0.1653	8.6605	3.7577	0.999615
ymr194w	0.1142	-0.0502	14.5066	3.7497	0.999622

yhr059w	0.2085	-0.0397	9.2163	3.7559	0.999628
yml120c	0.3824	0.1725	8.7623	3.7723	0.99963
yhr196w	0.2818	-0.0406	9.8554	3.7744	0.999632
ydr480w	0.2566	0.1669	8.7472	3.7600	0.999632
ydr270w	0.1796	0.1937	9.7994	3.7641	0.999637
ydl022w	0.2400	-0.0519	12.4198	3.7800	0.999638
ygl147c	0.2145	-0.0365	14.3533	3.7693	0.999642
ylr366w	0.2258	0.2755	8.5505	3.7739	0.999646
ygr082w	0.2082	0.0650	11.2708	3.7749	0.999647
yor039w	0.1789	0.1874	10.3043	3.7756	0.999648
ybr087w	0.2648	-0.1027	10.1294	3.7785	0.99965
ydr537c	0.2163	0.0216	8.2274	3.8170	0.999658
ydl017w	0.2403	0.1872	8.4028	3.8263	0.999666
ybr038w	0.1789	0.0465	9.7639	3.8008	0.999671
ynl113w	0.1273	0.1732	12.1320	3.8036	0.999673
ymr285c	0.1572	0.0672	9.2621	3.8050	0.999675
yml052w	0.2654	-0.0733	11.1314	3.8083	0.999678
ylr328w	0.2004	-0.0562	8.6792	3.8254	0.999679
ylr215c	0.1672	-0.1270	9.2267	3.8147	0.999683
ylr042c	0.4803	-0.0205	9.6697	3.8175	0.999686
ybr154c	0.2878	0.0647	12.0414	3.8186	0.999687
ypr177c	0.2094	-0.1719	9.3737	3.8195	0.999687
ylr312w-a	0.2939	0.2467	8.0204	3.8197	0.999687
ykl119c	0.2387	0.0324	9.4013	3.8205	0.999688
ypl040c	0.2686	-0.1624	8.7253	3.8570	0.999692
yel066w	0.1647	0.2913	10.9506	3.8263	0.999693
ynl288w	0.1558	0.0073	9.9782	3.8462	0.999697
yhr051w	0.5248	-0.2038	12.2915	3.8389	0.999703
yhr065c	0.1928	0.2337	9.7778	3.8443	0.999708
ylr129w	0.1913	-0.0705	10.9552	3.8450	0.999708
ygr256w	0.3495	-0.3882	8.2877	3.8818	0.999712
yil096c	0.1808	0.0092	9.4477	3.8575	0.999718
yol077c	0.1996	-0.0307	11.2339	3.8619	0.999721
ydr529c	1.3770	0.2391	8.9542	3.9366	0.999724
yfr051c	0.2152	0.0042	9.6363	3.8676	0.999726
ymr090w	0.0839	0.1004	11.9400	3.8680	0.999726
ymr016c	0.1748	0.0558	9.6585	3.8692	0.999727

yjr076c	0.2083	0.0605	10.8128	3.8723	0.999729
ypl078c	0.5349	-0.0057	11.2731	3.8762	0.999732
yor005c	0.2306	0.0252	9.0676	3.8807	0.999735
ydl064w	0.1271	0.0084	10.6650	3.8845	0.999738
ydl170w	0.1319	0.1084	9.9247	3.8867	0.99974
ybr097w	0.1211	-0.1426	8.8095	3.8922	0.999743
ybr235w	0.1949	-0.0005	9.1746	3.8781	0.999744
yil086c	0.2164	-0.0228	9.3135	3.9112	0.999746
ydr502c	0.2780	-0.2104	11.0379	3.8988	0.999748
yjl171c	0.2961	-0.1217	12.2657	3.8995	0.999749
yel007w	0.1754	0.0810	9.0973	3.8996	0.999749
ynl251c	0.2020	-0.0420	9.2383	3.9163	0.999749
ygl015c	0.2630	-0.1959	9.1605	3.9016	0.99975
yar018c	0.2366	0.1031	9.1873	3.9099	0.999756
yhr039c	0.3211	0.0871	10.0804	3.9103	0.999756
yil130w	0.1503	-0.3208	13.4507	3.6866	0.999757
yll041c	0.5160	-0.1050	9.7143	3.9233	0.999764
ygr226c	0.2117	0.0419	10.8642	3.9255	0.999766
ybr090c	0.2334	-0.2132	11.5120	3.9255	0.999766
ygr040w	0.1815	-0.2326	10.4201	3.9299	0.999769
ymr127c	0.1651	0.0215	8.5949	3.9303	0.999769
ygr093w	0.1525	0.1300	9.2125	3.9334	0.999771
yfr031c-a	0.1918	0.0831	13.6922	3.9340	0.999771
ykl019w	0.2341	0.1088	9.6080	3.9515	0.999772
ydr220c	0.1774	-0.0640	7.0816	3.9766	0.999776
ymr246w	0.1836	-0.0150	10.8274	3.9444	0.999778
ynl204c	0.1421	0.0574	8.2183	3.9686	0.999782
yer044c-a	0.1750	0.2010	7.6466	3.9916	0.999785
yfl058w	0.1031	-0.0037	11.4778	3.9579	0.999786
ybl054w	0.4302	-0.1277	8.3673	3.9592	0.999786
ydl222c	0.2042	-0.1732	8.8393	3.9600	0.999787
ymr305c	0.1174	-0.1402	12.2132	3.7231	0.999789
ypl089c	0.2662	-0.1834	11.7839	3.9655	0.99979
ymr013c	0.2153	-0.3378	9.9520	3.9825	0.99979
ypr191w	0.4191	-0.0309	9.5661	3.9670	0.999791
ynl002c	0.2642	-0.0439	10.9729	3.9687	0.999792
ypl125w	0.1680	-0.1365	8.2245	3.9857	0.999792

y1r047c	0.2593	0.0601	9.4676	3.9903	0.999795
ykr059w	0.1459	-0.2072	13.7008	3.7415	0.999797
ygl199c	0.1529	0.0154	9.3544	3.9815	0.999799
yjl172w	0.3074	-0.2519	10.8842	3.9828	0.9998
y1r251w	0.2021	0.0215	8.9476	4.0009	0.9998
y1r134w	0.3573	0.0273	9.8958	3.9840	0.999801
yjl130c	0.1224	-0.0518	11.2327	3.7447	0.999801
yfr028c	0.1490	0.0106	8.5593	3.9878	0.999803
y0r224c	0.1636	-0.0895	12.2651	4.0059	0.999803
ygr219w	0.0885	-0.0663	8.8070	4.0071	0.999804
ypr128c	0.2101	-0.0379	11.3121	3.9930	0.999805
ydl129w	0.2903	0.1917	7.6316	4.0293	0.999806
y1r313c	0.3074	-0.0661	8.6563	3.9961	0.999807
y0r088c	0.2548	-0.0855	11.6211	4.0181	0.99981
yhr167w	0.0943	-0.1146	11.2301	4.0052	0.999812
y0r171c	0.1891	0.0331	8.2831	4.0053	0.999812
y0r150w	0.5183	0.1496	9.5221	4.0068	0.999813
ykl148c	0.7464	-0.0680	9.7800	4.0133	0.999816
y1r279c	0.2794	-0.1424	9.3039	4.0366	0.999819
y1r002c	0.2922	0.1487	7.6826	4.0555	0.999819
y0r343c-a	0.2202	-0.1524	10.0312	4.0038	0.999819
yil171w	0.2399	-0.0984	9.8191	4.0228	0.999821
yjr161c	0.1974	-0.0571	11.3508	4.0272	0.999823
y0r037c	0.2281	0.0692	9.3321	4.0644	0.999823
y0r206w	0.2442	-0.1857	9.4994	4.0304	0.999824
yir035c	0.5278	-0.0518	10.3866	5.6734	0.999826
ydr030c	0.1712	0.1752	9.0075	4.0335	0.999826
ypl001w	0.2701	0.1232	8.9011	4.0514	0.999826
ybr298c	0.2767	-0.1316	9.7688	4.0354	0.999827
ydr134c	0.2194	-0.0718	15.0185	4.0378	0.999828
yol115w	0.1711	0.2140	9.8615	4.0455	0.999832
ykl096w	0.2431	-0.0439	11.8833	4.0534	0.999835
y0r334w	0.1442	-0.0283	8.7365	4.0550	0.999836
ypr160w	0.3072	-0.0072	8.2476	4.0566	0.999837
yhr213w	0.1384	0.0328	9.7203	4.0957	0.999838
ykl057c	0.1463	-0.0089	10.5556	4.0613	0.999839
ykl209c	0.2693	-0.2300	10.5280	4.0619	0.999839

ypl166w	0.1764	-0.4098	10.7197	4.0625	0.999839
ypl104w	0.1943	0.0760	8.2414	4.0631	0.99984
ylr448w	0.1551	-0.0610	13.4862	4.0660	0.999841
ybl083c	0.2020	0.1358	9.5361	4.0671	0.999841
ydr528w	0.1788	0.2308	8.4088	4.0680	0.999842
ykl085w	0.3152	0.0160	10.0052	4.0686	0.999842
ydr208w	0.1328	0.0635	9.7558	4.0754	0.999845
ydl110c	0.2447	0.1678	10.2959	4.0854	0.999849
ydl235c	0.2722	-0.0528	10.4430	4.0858	0.999849
ydr021w	0.1271	-0.1756	8.6566	4.0935	0.999852
yml055w	0.4482	0.1491	11.3306	4.0953	0.999853
ynr015w	0.1689	0.1127	9.7662	4.0955	0.999853
ybr201w	0.1900	-0.0251	8.8972	4.0963	0.999854
ygr088w	0.3331	0.4652	7.5414	4.0800	0.999854
ykl219w	0.2143	-0.1040	13.2672	4.0972	0.999854
ybr262c	0.2375	0.1065	10.5285	4.1405	0.999856
yml025c	0.1631	-0.0220	10.1302	4.1051	0.999857
ydr055w	0.3014	-0.0711	11.5315	4.1052	0.999857
yor326w	0.1633	-0.0375	9.7894	4.1111	0.999859
yll029w	0.2783	-0.0008	9.9502	4.1116	0.99986
ypl058c	0.2823	0.0420	9.9127	4.1138	0.99986
ylr163c	0.1850	0.0173	10.2804	4.1165	0.999862
yhl005c	0.1179	-0.0289	10.8076	4.1178	0.999862
ynl180c	0.2166	-0.2026	10.6723	4.1029	0.999863
ygl050w	0.2365	0.1707	8.9956	4.1275	0.999866
yfl057c	0.5382	0.1133	8.8650	4.1278	0.999866
ydl082w	0.1498	0.0080	13.3486	4.1397	0.99987
ykl104c	0.2211	-0.1603	10.5380	4.1585	0.99987
yor288c	0.1806	-0.1016	10.4426	4.1399	0.99987
ynl034w	0.4081	-0.0647	6.5625	4.2026	0.999871
ydr476c	0.2272	-0.0585	10.3842	4.1416	0.999871
ykr057w	0.1479	0.1004	15.2063	4.1429	0.999871
ynl156c	0.3712	0.0028	11.0236	4.1465	0.999873
yer143w	0.1172	0.0902	10.5914	4.1494	0.999874
yjr058c	0.1235	-0.0184	10.5953	4.1541	0.999875
yll018c-a	0.3496	0.2414	8.2738	4.1650	0.999879
yml132w	0.2325	0.0765	11.4955	4.1669	0.99988

ylr051c	0.2580	0.1542	9.8834	4.1888	0.99988
ybl033c	0.2117	0.0222	10.7442	4.1773	0.999883
ypl094c	0.1852	0.0397	12.3702	4.1777	0.999883
ynr043w	0.3123	-0.1573	9.7860	4.1797	0.999884
ygl200c	0.3072	0.0320	12.6459	4.1807	0.999884
yir019c	0.6290	-0.3809	6.4302	4.2680	0.999884
ygr013w	0.3150	0.0008	8.7905	4.1909	0.999887
ygl043w	0.3607	0.2088	9.1142	4.1934	0.999888
ybr146w	0.1779	-0.0889	11.1098	4.1952	0.999889
ydl241w	0.2067	-0.0433	10.4056	4.1828	0.99989
ynl210w	0.1309	0.0461	8.5941	4.2215	0.999891
ypl079w	0.1209	-0.2337	13.3290	4.2034	0.999891
ydr397c	0.1492	0.0364	12.5126	4.2077	0.999892
ycr081w	0.2002	0.0345	8.8331	4.2535	0.999894
ymr081c	0.4043	-0.1308	8.0132	4.2151	0.999895
ybr060c	0.2926	0.1373	12.0814	4.2203	0.999896
ymr008c	0.3268	0.2948	7.9751	4.2407	0.999896
yor286w	0.2042	-0.0441	11.3096	4.2236	0.999897
ybr037c	0.2202	0.0686	10.2680	4.2319	0.999899
yor161c	0.5634	-0.0543	10.7853	4.2354	0.9999
ycr085w	0.2223	0.3523	10.1335	4.2555	0.9999
ymr220w	0.3448	-0.0004	9.6820	4.2210	0.999902
yor274w	0.2138	0.0636	9.4217	4.2436	0.999903
yor129c	0.3805	0.2035	6.9193	4.2662	0.999903
ynl108c	0.1290	-0.0016	10.3226	4.2485	0.999904
yjl191w	0.1637	0.1439	14.2020	4.2517	0.999905
ybl008w	0.1330	-0.0380	8.8331	4.2519	0.999905
ybr190w	0.2401	-0.0756	10.9977	4.2541	0.999905
ydr377w	0.3257	0.0553	11.1176	4.2716	0.99991
ylr336c	0.2130	-0.1552	10.4894	4.2961	0.999911
ylr388w	0.1096	0.1175	14.7165	4.2760	0.999911
ykl125w	0.2936	-0.5465	7.4446	4.2789	0.999912
ygl236c	0.3630	-0.0887	8.4203	4.2810	0.999912
ydr432w	0.1579	0.1522	10.7794	4.2868	0.999914
ylr294c	0.4301	-0.0698	11.6750	4.2887	0.999914
ylr270w	0.1945	-0.1404	10.5401	4.2895	0.999914
yhr084w	0.2572	0.1174	9.8332	4.3101	0.999914

ygl226c-a	0.2864	0.1849	11.2421	4.2957	0.999916
yjr084w	0.6259	0.0428	7.5744	4.4496	0.999916
ykl187c	0.1776	0.1862	11.9442	4.2982	0.999916
ydr248c	0.4632	0.2695	7.8245	4.3932	0.999917
ymr024w	0.2573	-0.2235	9.2395	4.3011	0.999917
ydl171c	0.1667	0.0064	9.9632	4.3021	0.999917
yml043c	0.4890	-0.3504	9.8573	4.3030	0.999917
yml081c-a	0.4058	-0.0507	13.3031	4.3037	0.999918
ypr198w	0.3468	-0.2521	9.7586	4.3044	0.999918
ymr087w	0.1253	0.1550	8.4649	4.3085	0.999919
yhr046c	0.4567	0.3140	8.3637	4.3308	0.999919
ylr192c	0.2926	0.0129	10.8392	4.3154	0.99992
ylr008c	0.1879	-0.0526	10.1747	4.3229	0.999922
ybr226c	0.2072	-0.0012	11.8337	4.3448	0.999922
ybr251w	0.2400	0.0462	8.7717	4.3360	0.999925
yor126c	0.2999	-0.0129	9.1322	4.3410	0.999926
ydr324c	0.2338	-0.0619	10.4039	4.3527	0.999928
ycl022c	0.2509	0.0245	8.3309	4.3990	0.999928
yol052c-a	0.4255	-0.2116	10.3677	4.3696	0.999931
yjl037w	0.1774	0.2817	10.8772	4.3750	0.999932
ygr123c	0.1145	0.0505	9.9151	4.3807	0.999934
yhr155w	0.2301	-0.0125	8.3421	4.3839	0.999934
ymr015c	0.2502	0.1338	12.8224	4.3944	0.999936
ybl009w	0.4038	-0.0150	9.0636	4.4189	0.999936
yel068c	0.3027	0.1471	9.1532	4.4494	0.999938
yml152w	0.1613	-0.1478	10.3386	4.4050	0.999938
ykl051w	0.5319	-0.1514	10.1023	4.4143	0.999939
ycl012w	0.5254	0.0705	9.3287	4.4189	0.99994
ypr156c	0.4804	-0.1415	13.3571	4.4250	0.999941
ykl167c	0.3133	0.1010	9.2200	4.4257	0.999941
ylr335w	0.1800	0.2509	9.0217	4.4258	0.999941
ygr189c	0.2492	-0.1035	11.1075	4.4268	0.999942
ygr120c	0.1894	0.0639	7.9852	4.4494	0.999942
ynr019w	0.6059	0.1578	9.1677	4.4292	0.999942
ydl167c	0.3017	0.1606	9.7524	4.4296	0.999942
ylr450w	0.3084	-0.0161	11.1221	4.4191	0.999944
yjr131w	0.2490	-0.1861	8.9321	4.4459	0.999945

ydr237w	0.4601	-0.0690	10.4307	4.4481	0.999945
ylr268w	0.2594	0.2389	8.7930	4.4774	0.999946
ykl220c	0.5281	0.0334	8.9919	4.4549	0.999946
ydr462w	0.1917	0.0962	9.8768	4.4361	0.999946
ygl070c	0.2207	0.0344	9.7894	4.4438	0.999947
yjl157c	0.2453	0.0700	9.1376	4.4684	0.999948
ynl003c	0.2998	0.0630	10.1892	4.4712	0.999948
ypl177c	0.4830	-0.1402	10.0307	4.4716	0.999948
yor065w	0.7228	0.0789	11.6323	4.4504	0.999948
ybl098w	0.3183	-0.0185	9.6595	4.4736	0.999949
ybr114w	0.2846	0.3183	7.8937	4.4868	0.999951
ydr322c-a	0.6009	-0.0844	11.4091	4.4868	0.999951
yll028w	0.4973	0.0469	10.1830	4.4919	0.999951
ydr101c	0.1855	0.0276	11.4537	4.4921	0.999951
ydr367w	0.2712	0.0202	9.7051	4.4719	0.999952
yhr190w	0.4585	0.0401	11.4062	4.4987	0.999952
ynl030w	0.2638	-0.0249	13.2475	4.5026	0.999953
yol002c	0.3293	-0.0433	10.9710	4.5026	0.999953
ydr187c	0.3283	-0.4412	10.5109	4.5092	0.999954
ybr234c	0.2725	0.0171	10.7990	4.5111	0.999954
ygl075c	0.1855	-0.0591	9.5789	4.5141	0.999954
ygr283c	0.1828	-0.0870	10.0527	4.5143	0.999954
yjl208c	0.2088	0.0440	9.7875	4.5209	0.999955
yol122c	0.3373	-0.0164	10.3825	4.5218	0.999955
ymr105c	0.4344	-0.0328	9.6588	4.5455	0.999955
ygl055w	0.3485	-0.2564	13.5498	4.1964	0.999956
yel020w-a	0.9558	0.0277	9.6239	4.5345	0.999957
yml095c	0.3109	-0.2505	9.4209	4.5921	0.999958
yil033c	0.1376	-0.0969	11.7739	4.5504	0.999959
yar068w	0.1980	-0.0032	10.9312	4.5510	0.999959
ylr438w	0.3920	0.1672	9.9438	4.5515	0.999959
yjl198w	0.0978	-0.0603	10.1452	4.5535	0.999959
yor120w	0.2676	0.1765	8.5587	4.5544	0.999959
yor285w	0.7154	-0.0642	13.3020	4.5565	0.999959
ydl063c	0.2485	-0.1084	11.0108	4.5692	0.999961
yel042w	0.2263	-0.2556	12.6406	4.5698	0.999961
ypr149w	0.5152	-0.1277	12.9891	4.5699	0.999961

ynr053c	0.2541	-0.0558	11.6654	4.5700	0.999961
yol021c	0.2319	0.1585	9.4835	4.5727	0.999961
ymr243c	0.2587	-0.2588	11.7667	4.5807	0.999962
ygl191w	0.6286	-0.0200	12.4005	4.5817	0.999962
yjl183w	0.2858	-0.1479	11.1293	4.5893	0.999963
ybl028c	0.2511	-0.1547	11.1544	4.5956	0.999964
ybr173c	0.2340	0.1988	10.1241	4.5964	0.999964
yer053c	0.2464	0.1866	11.2505	4.6042	0.999964
ybl037w	0.2485	0.2044	8.1125	4.6043	0.999964
ypl018w	0.2154	0.1302	9.0546	4.6314	0.999965
yhr005c-a	0.3235	-0.0987	13.0492	4.6370	0.999965
yjr038c	0.1991	-0.6229	8.4994	4.6176	0.999966
ypr028w	0.2894	0.0651	11.3637	4.6214	0.999966
ydr222w	0.3424	-0.1252	9.5792	4.6215	0.999966
ypl199c	0.1565	0.2168	9.6720	4.6236	0.999966
yhl048w	0.3060	-0.1401	12.9938	4.6534	0.999967
ynl185c	0.2184	-0.0521	11.5046	4.6302	0.999967
yjr035w	0.1577	0.0695	8.0622	4.6307	0.999967
ycr072c	0.2962	0.1748	9.0410	4.6310	0.999967
ykl116c	0.2414	-0.0344	9.1175	4.6311	0.999967
yjl158c	0.1803	0.0773	13.2488	4.6365	0.999968
yil091c	0.2338	0.1260	8.6902	4.6367	0.999968
ykl166c	0.2010	0.1301	10.1301	4.6368	0.999968
yml008c	0.3206	-0.0690	10.8996	4.6383	0.999968
yhr049w	0.2790	-0.0207	9.7320	4.6392	0.999968
yor266w	0.3116	-0.1173	9.1858	4.6656	0.999968
yor212w	0.1799	-0.0812	10.0708	4.6459	0.999968
ykl151c	0.2543	0.0339	10.1084	4.6554	0.999969
yhr148w	0.1840	0.0714	10.4022	4.6593	0.99997
yol144w	0.2329	0.0600	9.1700	4.6610	0.99997
ycr077c	0.2630	-0.2078	10.2697	4.6637	0.99997
ybl095w	0.2958	0.0828	10.1385	4.6645	0.99997
ylr038c	0.8852	0.0569	11.7766	4.6682	0.99997
ymr055c	0.1753	0.0883	11.9073	4.6689	0.99997
ylr179c	0.7367	-0.0534	12.4447	4.6700	0.99997
ykl163w	0.4282	-0.1775	8.7563	4.6975	0.999971
ygl187c	0.8268	0.0099	11.5415	4.6774	0.999971

ykl029c	0.3430	-0.0869	10.3998	4.6794	0.999971
ypl016w	0.2433	-0.1521	10.3289	4.6804	0.999971
ynl052w	0.8230	-0.2668	10.8004	4.7211	0.999972
yil070c	0.1913	0.0921	12.3517	4.7034	0.999973
ycr028c	0.2836	-0.0922	11.9618	4.7055	0.999973
ydr063w	0.3738	-0.1128	11.1431	4.7092	0.999974
ypl245w	0.3573	-0.1227	9.7629	4.7109	0.999974
ynl336w	0.2347	-0.0707	12.0420	4.7155	0.999974
ylr243w	0.2932	-0.1288	10.1301	4.7476	0.999974
ygr055w	0.4918	-0.3592	10.1450	4.7495	0.999975
yjl143w	0.1699	0.1327	12.8510	4.7281	0.999975
ydl067c	0.4470	-0.3167	12.2652	4.7305	0.999975
ygr052w	0.2960	-0.0958	8.4756	4.7589	0.999975
ygr165w	0.5151	-0.0040	8.9712	4.7609	0.999975
yhr175w	0.2409	0.0655	11.0811	4.7345	0.999975
yel006w	0.2429	-0.0336	13.2178	4.7415	0.999976
ypr181c	0.2254	-0.0524	10.3421	4.7425	0.999976
ylr375w	0.3149	-0.1364	10.6161	4.7481	0.999976
yjr096w	0.2413	0.0096	9.4495	4.7655	0.999977
yml013c-a	0.1761	0.0443	10.4950	4.7732	0.999978
ydl060w	0.1780	0.1469	9.1505	4.7756	0.999978
ycr045c	0.2193	0.2262	8.1816	4.8030	0.999978
yor315w	0.2888	0.0056	11.2431	4.8049	0.999978
yjr077c	0.5798	-0.0356	12.7203	4.7781	0.999978
ygl080w	0.3608	-0.0740	11.1725	4.7815	0.999978
ygr069w	0.2620	0.1371	9.9421	4.7829	0.999979
ypl046c	0.1512	0.0120	10.8131	4.7835	0.999979
ybl045c	0.6112	0.1024	11.0164	4.7874	0.999979
ybr176w	0.2141	0.1186	8.5780	4.7902	0.999979
ymr203w	0.2934	-0.0103	12.5586	4.8188	0.999979
ydr091c	0.3240	-0.2003	11.4580	4.7973	0.999979
ymr017w	0.4032	0.2245	7.7144	4.8945	0.99998
ypr007c	0.1992	0.1449	12.5318	4.8113	0.99998
yjl166w	0.8495	-0.0576	12.2726	4.8113	0.99998
ypr151c	0.3045	-0.1429	9.9404	4.8122	0.99998
ydr416w	0.1775	0.0219	7.8914	4.8145	0.99998
ylr295c	0.4826	-0.0965	9.7284	4.8178	0.999981

yol155c	0.6996	-0.2890	10.7920	4.8202	0.999981
yer043c	0.2256	-0.0666	11.3704	4.8215	0.999981
yjl138c	0.2102	-0.1709	14.3326	4.8368	0.999982
ygr121c	0.3545	0.1124	8.7592	4.8456	0.999982
ykl078w	0.2329	-0.0126	9.8507	4.8521	0.999982
yjr115w	0.2175	-0.7520	14.6607	4.4606	0.999982
yhr052w	0.2332	-0.0276	11.0209	4.8643	0.999983
yjl004c	0.1741	0.0689	10.8935	4.8644	0.999983
ycr024c-a	0.1926	0.0409	13.9564	4.4737	0.999983
ygl001c	0.3360	0.2303	10.1159	4.8717	0.999983
ykl214c	0.2370	0.0704	9.4683	4.8755	0.999983
yjr124c	0.1860	-0.2300	10.2101	4.8783	0.999984
ygl188c	0.7815	-0.0338	12.8354	4.8811	0.999984
ybr183w	0.6208	0.1037	10.4685	4.8845	0.999984
yol077w-a	0.7561	0.1106	10.2276	4.8866	0.999984
ydl181w	0.8920	0.0057	11.1468	4.8898	0.999984
yhr072w	0.3856	-0.0642	9.3691	4.8947	0.999984
ypl274w	0.4470	-0.0299	9.9072	4.8948	0.999984
yol011w	0.3421	0.0574	10.1432	4.9065	0.999985
ydl061c	0.1368	0.1189	15.1562	4.9123	0.999985
ydl033c	0.3654	0.1856	10.7301	4.9141	0.999985
ydr343c	0.3368	0.0133	14.4491	4.9167	0.999985
ymr049c	0.2880	-0.1267	8.8658	4.9779	0.999985
ygr183c	1.1314	-0.1399	12.2285	4.9233	0.999986
yhr032w	0.3510	0.1389	9.3418	4.9248	0.999986
ykr054c	0.0528	0.1522	9.3329	1.0855	0.999986
yjr121w	0.4948	-0.1514	12.6386	4.9368	0.999986
ymr226c	0.1660	-0.0084	11.3758	4.9372	0.999986
yor001w	0.2181	0.0141	9.7340	4.9373	0.999986
yml096w	0.2029	-0.0801	9.8158	4.9374	0.999986
yml126c	0.4960	-0.1399	11.5548	4.9427	0.999986
ydl231c	0.3146	0.1263	9.6110	4.9430	0.999986
yml018c	0.3534	-0.0080	10.7626	4.9490	0.999987
ydr053w	0.1875	0.2587	10.4014	4.9794	0.999987
yil090w	0.4098	-0.0690	10.6876	4.9538	0.999987
ymr286w	0.2686	-0.0792	10.7573	4.9623	0.999987
yfl034c-b	0.2610	-0.4069	9.5609	5.0003	0.999987

yil169c	0.7749	0.0240	11.7573	4.9719	0.999987
ydr116c	0.2631	-0.0979	9.3120	4.9820	0.999988
yer182w	0.4090	-0.0269	9.5550	4.9864	0.999988
ypl026c	0.5455	-0.1783	8.4066	5.0718	0.999989
ygr128c	0.1366	-0.0770	10.2886	5.0177	0.999989
ymr256c	0.9191	-0.0633	11.2370	5.0210	0.999989
ydr222c	0.1590	-0.0905	10.7664	5.0236	0.999989
yil011w	0.3958	-0.0079	8.4376	5.0676	0.999989
ypl013c	0.6566	0.1532	10.1899	5.0432	0.99999
ydr247w	0.4762	0.2977	8.1566	5.0446	0.99999
yjl073w	0.3576	0.0614	9.3148	5.0495	0.99999
ybl099w	0.6945	0.1343	10.9887	5.0501	0.99999
yal049c	0.2746	0.0067	10.5273	5.0522	0.99999
ygr014w	0.4369	-0.0223	11.3487	5.0545	0.99999
ypr013c	0.5998	0.0604	8.4862	5.1206	0.99999
ydl217c	0.1943	0.0147	11.6960	5.0591	0.99999
yer054c	0.1135	0.0802	13.1332	5.0630	0.99999
ydr531w	0.3082	-0.0875	10.7399	5.1008	0.99999
ydr077w	0.7549	-0.0502	14.3987	5.0717	0.99999
yjr063w	0.2051	0.0435	11.0020	5.0759	0.999991
ynl111c	0.9948	-0.0010	12.3262	5.0862	0.999991
ykl109w	0.2424	-0.1382	10.4209	3.4153	0.999991
yml192w	0.4159	0.1546	9.2660	5.0923	0.999991
ybl044w	0.2133	0.0073	10.5617	5.0931	0.999991
ydl040c	0.3032	0.0151	9.9006	5.0994	0.999991
yel064c	0.4382	-0.0253	9.5134	5.2052	0.999991
ynl274c	0.8858	-0.1138	11.2585	5.1704	0.999991
ybr202w	0.2278	-0.0727	9.0583	5.1045	0.999991
yjl167w	0.4984	-0.2398	11.7778	5.1092	0.999991
ypl049c	0.2824	-0.2419	9.1914	3.6611	0.999992
ydr172w	0.1753	-0.0182	10.3383	5.1156	0.999992
ydr492w	0.3906	-0.2246	10.6291	5.1186	0.999992
ypl014w	0.7384	-0.0177	9.0599	5.1741	0.999992
ydr180w	0.1973	-0.2066	11.6794	4.6910	0.999992
ykl018w	0.3091	0.0462	8.6672	5.1466	0.999992
yml304c-a	0.3047	0.0099	13.7706	5.1596	0.999993
ydl012w	0.4174	0.0314	9.9989	5.1609	0.999993

ydl165w	0.2086	-0.0926	9.3621	5.2031	0.999993
ydr441c	0.2415	-0.0680	9.6734	5.2413	0.999993
yor310c	0.3076	0.0263	11.8324	5.1761	0.999993
yel024w	0.5855	-0.1160	12.7502	5.1895	0.999993
yjl174w	0.1909	-0.1448	11.8200	5.1952	0.999993
ynl061w	0.2710	0.0390	8.2795	5.1956	0.999993
ydr084c	0.2220	0.1954	11.7134	5.1958	0.999993
ylr190w	0.2907	-0.0082	9.0115	5.1982	0.999993
ynl335w	0.2410	-0.2486	8.4955	5.2341	0.999993
ykr046c	0.5193	-0.0544	9.9038	5.2065	0.999993
yhl026c	0.2670	-0.1853	8.5244	5.2086	0.999994
yer001w	0.5888	-0.1561	10.3783	5.2132	0.999994
ykl014c	0.2721	0.0474	8.9613	5.2306	0.999994
ypl144w	0.3398	-0.0272	9.7041	5.2329	0.999994
yel039c	0.5866	0.1999	9.8026	5.2337	0.999994
ybr125c	0.3069	-0.1202	10.2277	5.2353	0.999994
yor341w	0.3306	-0.1415	10.2429	5.2447	0.999994
ydl117w	0.2943	0.0691	7.8388	5.2802	0.999994
ydl049c	0.2852	0.2480	9.0430	5.2502	0.999994
yor150w	0.2450	0.1447	10.5377	5.2552	0.999994
ykl062w	0.2187	-0.2388	9.3858	2.7000	0.999994
ykl009w	0.3455	-0.0889	12.0046	5.2566	0.999994
ygl169w	0.7689	-0.0858	9.8872	5.2634	0.999994
yjr130c	0.2068	0.0646	10.6469	5.2645	0.999994
yil093c	0.4374	0.2071	8.9647	5.2658	0.999995
yer044c	1.1012	-0.0281	11.4708	5.2731	0.999995
ycr093w	0.3262	-0.2906	9.6874	5.2747	0.999995
yml102w	0.1458	-0.0462	10.3662	5.2832	0.999995
ydr347w	0.3212	0.0322	10.7954	5.2852	0.999995
yor272w	0.2401	0.1393	9.6043	5.2899	0.999995
ybl029w	0.4859	0.0404	7.8277	5.3020	0.999995
ykl182w	0.2106	-0.0791	11.7671	4.8152	0.999995
ylr003c	0.2242	-0.0854	11.1205	5.3227	0.999995
ypl030w	0.3593	0.0223	8.6484	5.3599	0.999995
ymr122w-a	0.3467	0.1136	12.0928	4.8383	0.999995
yor361c	0.2283	0.0345	10.9311	5.3373	0.999996
yor276w	0.3007	-0.3547	12.0650	5.3414	0.999996

ykl170w	0.4134	-0.0222	11.0761	5.3520	0.999996
ynl169c	0.4248	0.0522	9.0005	5.3521	0.999996
yjl125c	0.3664	0.1296	10.8827	5.3596	0.999996
yjr010w	0.4839	-0.0536	9.6635	5.4490	0.999996
ydr011w	0.4190	-0.0296	10.5155	5.3784	0.999996
yhr135c	0.2845	-0.2037	12.9879	5.3855	0.999996
ymr006c	0.8403	-0.1479	11.1513	5.3865	0.999996
ypl167c	0.5237	-0.2613	9.5260	5.4691	0.999996
ykr058w	0.2579	0.1005	10.1576	5.4100	0.999996
ynl067w	0.2171	-0.0987	13.7686	5.4125	0.999996
ygr138c	1.2351	-0.2046	10.7077	5.4211	0.999996
yhr163w	0.5609	-0.0535	11.0550	5.4271	0.999997
ygr244c	0.2747	0.2472	10.6426	5.4360	0.999997
ypr065w	0.6059	-0.2263	10.0966	5.4535	0.999997
ypl223c	0.2228	-0.1573	12.5984	5.4694	0.999997
ypl111w	0.1555	0.1682	10.9559	1.9772	0.999997
yfl026w	0.4415	-0.3193	12.3173	5.5039	0.999997
yhr001w-a	1.4036	-0.0283	11.2548	5.5046	0.999997
yjr047c	0.5370	-0.1000	13.8250	5.5519	0.999998
ydl014w	0.3059	0.0121	12.5988	5.5677	0.999998
yml075c	0.9772	0.0081	10.3588	5.5755	0.999998
yjl035c	0.5313	0.1437	10.1504	5.5818	0.999998
yer187w-a	0.6478	-0.0793	7.9407	5.6667	0.999998
ybl043w	0.1959	0.1060	8.4329	5.5833	0.999998
ygl237c	0.5186	0.3339	8.3992	5.5898	0.999998
yjl109c	0.1818	0.0813	12.3559	5.5950	0.999998
ylr413w	0.3055	-0.1441	11.1085	5.6074	0.999998
ynr034w-a	0.9694	0.0844	9.1364	5.6957	0.999998
ylr153c	1.0570	-0.0934	11.5760	5.6108	0.999998
yel034w	0.6625	0.0613	13.6976	5.6109	0.999998
yml080w	0.2409	0.0341	9.2497	5.5816	0.999998
yhl024w	0.2420	-0.1666	8.6291	5.6267	0.999998
ycr079w	0.2937	-0.1337	9.7229	5.6322	0.999998
ygr060w	0.6212	-0.0590	13.4593	5.6558	0.999998
ylr152c	0.8323	0.0149	9.6675	5.6584	0.999998
yal040c	0.2711	-0.0980	10.0394	5.6769	0.999998
yar033w	0.3644	0.1138	10.0946	5.6851	0.999998

y1r454w	0.4073	-0.1352	10.1541	5.6465	0.999998
y1r048w	1.4092	0.1576	10.7622	5.6892	0.999998
y1r300c	0.7520	-0.1282	9.8212	5.6956	0.999998
y1r182c	1.0695	0.0119	11.3777	5.6601	0.999998
y1r341c	0.7287	-0.0926	11.8910	5.7516	0.999998
y1r039w	0.4740	-0.1399	10.0143	5.7603	0.999998
y1r175c	0.5186	-0.2103	12.9861	5.7215	0.999998
y1r241c	0.7015	-0.2473	10.9362	5.7676	0.999998
y1r533c	0.2615	0.1061	10.4290	5.7286	0.999999
y1r007c	0.8505	-0.2714	13.0506	5.7308	0.999999
y1l162c-a	0.8587	0.0538	9.6733	5.7318	0.999999
y1r159c	0.2239	-0.1538	9.8359	5.7334	0.999999
y1r248w	0.5095	-0.1747	12.5896	5.7366	0.999999
y1r297w	1.0184	-0.0430	9.9986	5.7406	0.999999
y1r104c	0.7324	0.3278	9.2169	5.2040	0.999999
y1l168w	0.4716	-0.0217	9.7880	5.7492	0.999999
y1l298w	0.5444	-0.4039	9.6777	5.7932	0.999999
y1r079w	0.3372	-0.1577	9.6997	5.7529	0.999999
y1r345c	0.2810	0.0269	13.1937	5.1810	0.999999
y1r339c	0.4875	0.1434	9.9042	5.8208	0.999999
y1l248w	0.9359	-0.0767	9.6314	5.7918	0.999999
y1r086c	0.1420	0.0632	12.4307	5.1948	0.999999
y1r145c	0.4015	0.1207	10.0824	5.8044	0.999999
y1l088c	0.3575	-0.0790	10.2663	5.8052	0.999999
y1r159c	0.3726	-0.0368	11.4405	5.8337	0.999999
y1l137c	0.5036	-0.5137	8.8852	5.8524	0.999999
y1r092c	0.8188	-0.1607	12.6681	5.8989	0.999999
y1r021c	0.6871	-0.0080	11.2046	5.8656	0.999999
y1r091c	0.5341	0.1044	10.2821	5.8757	0.999999
y1r259c	0.6065	0.1950	9.0052	5.8983	0.999999
y1r169c	0.3985	-0.2032	8.8252	5.9051	0.999999
y1l024c	0.2966	0.0335	10.8303	5.9232	0.999999
y1l062w	0.4511	-0.2809	7.9998	5.9233	0.999999
y1l150w	0.4850	-0.1063	10.4506	5.9451	0.999999
y1r395c	0.9305	-0.0404	10.2083	5.9520	0.999999
y1l056c	0.4075	-0.1089	13.5183	5.9570	0.999999
y1r238c	0.6019	-0.1810	10.2724	5.9670	0.999999

yor239w	0.2614	0.1503	10.7416	5.9705	0.999999
ybr135w	0.3189	0.0671	9.7450	5.9964	0.999999
ymr145c	0.9962	-0.0489	11.6642	6.0049	0.999999
yer084w	0.3725	-0.0890	10.4726	6.0219	0.999999
ygl261c	0.3450	-0.2561	10.4380	5.9810	0.999999
yer107w	0.6640	-0.0945	9.0812	6.0436	0.999999
yer135c	0.4430	-0.3465	10.7552	6.0536	0.999999
ykl027w	0.2869	0.1906	11.1764	6.1397	0.999999
ykr033c	0.3070	-0.1637	11.6053	6.1113	0.999999
ypl112c	0.3490	-0.0379	9.5962	6.1376	1
yil158w	0.5462	0.0481	9.3077	6.1922	1
yjl118w	0.4589	-0.4895	10.4335	6.2269	1
ygr181w	0.5150	-0.0067	10.2616	6.2305	1
ylr419w	0.4084	-0.7905	7.1256	6.4161	1
yll030c	0.6910	-0.3534	11.2034	6.2456	1
yor032c	0.3739	0.0112	8.7303	6.3063	1
yjl026w	0.8232	-0.0854	12.3459	6.3208	1
ynl244c	0.2678	-0.0399	13.0447	5.5510	1
ydl221w	0.3051	0.1456	8.4194	6.2969	1
yor098c	0.7115	-0.2707	11.8758	6.3036	1
yhr008c	0.5763	0.0306	9.9458	6.3126	1
ykr102w	0.4478	-0.5022	10.4979	6.3236	1
ypr077c	0.2650	-0.0960	9.8900	6.3830	1
ycl063w	0.2452	-0.1581	9.7792	6.3500	1
ynl047c	0.7136	-0.0469	10.0336	6.3556	1
ylr050c	0.9083	-0.0186	10.6463	6.3565	1
yil087c	0.6503	0.2151	9.8902	6.4984	1
ypr157w	0.7837	0.1838	8.6718	6.4788	1
yhr216w	1.1458	-0.0639	13.2996	6.4920	1
yhr183w	0.3191	-0.1145	12.1477	5.7316	1
yol140w	0.5537	-0.1099	11.0534	6.5409	1
yol061w	0.1286	-0.0422	11.0599	5.7448	1
yol097c	0.4179	-0.0523	10.0317	6.5598	1
yel017c-a	0.2049	0.0885	13.9225	5.7489	1
ylr323c	0.6158	-0.1906	10.9663	6.5632	1
ydl215c	0.3405	0.2045	10.6609	6.6428	1
yjr078w	0.3989	0.0973	9.8533	6.6008	1

ygr049w	1.2102	0.2207	9.6601	6.6454	1
ybr078w	0.3528	-0.1416	13.4366	5.8296	1
ybr089w	0.1264	0.0723	8.4687	6.6979	1
ymr181c	0.4171	-0.0144	8.9700	6.8148	1
ybl113c	0.2863	-0.1986	13.4951	5.9410	1
yjl078c	1.0855	-0.4557	9.6037	6.9096	1
yor247w	0.3262	-0.0935	13.0742	5.9984	1
ydl185w	0.3113	-0.2596	11.1175	6.0168	1
yor299w	1.0155	-0.1956	9.4369	7.0101	1
yor091w	0.7132	-0.1984	12.5729	6.9592	1
ydr150w	0.3845	-0.0393	9.5869	7.0147	1
yhr214w-a	0.4438	-0.2266	13.4347	7.0181	1
yfl010w-a	0.3079	-0.1389	11.1798	7.0474	1
ydr052c	0.7809	-0.0943	10.1423	7.1374	1
yor202w	0.7354	-0.2211	11.7535	7.2143	1
yjr070c	0.3438	-0.0602	11.5592	7.5890	1
yal012w	0.3656	0.0512	11.2488	6.4798	1
ynl086w	0.8092	-0.0631	9.9688	7.6652	1
yor375c	0.3961	-0.0775	11.3667	6.5221	1
ykl110c	0.6704	-0.1953	10.6253	7.7017	1
ynl190w	0.2906	-0.1545	11.7522	6.6023	1
ykl164c	0.1736	0.0475	13.9806	6.6643	1
yfl045c	0.4629	-0.0850	12.8879	6.8494	1
ydl137w	0.3354	-0.0732	12.9047	7.3495	1
ydr233c	0.3753	-0.2336	11.1464	7.2843	1
ydr276c	0.4464	-0.1359	13.6858	7.2882	1
ymr202w	0.4290	-0.1350	12.3453	7.3450	1
ylr342w	0.5709	-0.1883	11.6509	7.3721	1
ypr016c	0.2577	-0.0136	12.7323	7.4384	1
yer053c-a	2.5275	0.1492	10.5172	10.0537	1
ykl096w-a	0.6491	0.1313	15.3050	8.7515	1
ylr303w	1.4255	0.0485	9.5363	8.3790	1
yml058w	0.3878	0.0159	11.6435	8.7403	1
ynl338w	0.4364	-0.3183	11.5831	7.7938	1

Supplementary Table 2.

From the ChIP-chip data of Harbison et al. (2004) and our microarray data, we found 219 single-regulator-regulated genes showed expression divergence between RM and BY with $P < 0.0005$ or $P > 0.9995$.

ORF	Expression level $\log_2(\text{RM/BY})$	gamma	Average	T score	P-value
yal026c	-0.3200	-0.1317	9.8616	-6.1522	4.56E-07
yal031c	-0.6037	0.0684	8.5724	-6.6318	1.21E-07
yal033w	-0.3091	-0.1608	10.1003	-5.2478	5.78E-06
yal037w	-0.2387	0.0536	9.1837	-5.8196	1.16E-06
yal040c	0.2711	-0.0980	10.0394	5.6769	0.999998
yal044c	-0.5209	-0.0845	11.5163	-6.5948	1.34E-07
ybl006c	-0.3432	-0.0680	9.8605	-5.8207	1.15E-06
ybl032w	-0.2510	-0.0993	12.1949	-4.9482	1.35E-05
ybl033c	0.2117	0.0222	10.7442	4.1773	0.999883
ybl043w	0.1959	0.1060	8.4329	5.5833	0.999998
ybl050w	-0.1621	0.0403	11.4072	-4.3574	7.09E-05
ybr037c	0.2202	0.0686	10.2680	4.2319	0.999899
ybr038w	0.1789	0.0465	9.7639	3.8008	0.999671
ybr087w	0.2648	-0.1027	10.1294	3.7785	0.99965
ybr093c	-0.7815	-0.1284	11.6947	-5.2307	6.07E-06
ybr096w	-0.2236	-0.0785	11.1971	-4.3375	7.5E-05
ybr114w	0.2846	0.3183	7.8937	4.4868	0.999951
ybr129c	-0.3258	-0.0921	11.1751	-4.7164	2.59E-05
ybr135w	0.3189	0.0671	9.7450	5.9964	0.999999
ybr145w	-0.2400	0.0119	10.8892	-4.3768	6.72E-05
ybr184w	-0.2531	0.1606	6.9294	-5.2869	5.18E-06
ybr211c	-0.3041	0.0285	9.0523	-5.2383	5.94E-06
ybr212w	-0.1899	-0.0013	10.0046	-5.6127	2.07E-06
ycl048w	-0.3275	0.2527	7.9954	-4.1464	0.000128
ycr011c	-0.2772	-0.1916	10.4430	-4.0720	0.000157
ycr012w	-0.2609	-0.0225	14.9353	-6.4980	7.9E-09
ycr028c	0.2836	-0.0922	11.9618	4.7055	0.999973
ycr075c	-0.4320	-0.3618	9.8191	-3.9323	0.00024
ycr090c	-0.2231	-0.0602	11.3138	-4.8286	1.89E-05
ydl017w	0.2403	0.1872	8.4028	3.8263	0.999666

ydl060w	0.1780	0.1469	9.1505	4.7756	0.999978
ydl061c	0.1368	0.1189	15.1562	4.9123	0.999985
ydl084w	-0.3471	-0.1844	11.9959	-6.1966	4.03E-07
ydl105w	-0.2205	-0.2204	9.4729	-3.9293	0.000232
ydl124w	-0.5205	0.0124	10.0117	-5.5324	2.59E-06
ydl137w	0.3354	-0.0732	12.9047	7.3495	1
ydl205c	-0.4448	0.1465	9.0098	-4.7213	2.56E-05
ydr011w	0.4190	-0.0296	10.5155	5.3784	0.999996
ydr030c	0.1712	0.1752	9.0075	4.0335	0.999826
ydr086c	0.1420	0.0632	12.4307	5.1948	0.999999
ydr091c	0.3240	-0.2003	11.4580	4.7973	0.999979
ydr150w	0.3845	-0.0393	9.5869	7.0147	1
ydr186c	-0.1956	-0.0174	9.3165	-3.7642	0.00035
ydr222w	0.3424	-0.1252	9.5792	4.6215	0.999966
ydr232w	-0.1952	-0.0341	10.1213	-3.7234	0.000406
ydr248c	0.4632	0.2695	7.8245	4.3932	0.999917
ydr296w	-0.1259	0.0858	10.0280	-5.1913	6.79E-06
ydr322c-a	0.6009	-0.0844	11.4091	4.4868	0.999951
ydr339c	0.4875	0.1434	9.9042	5.8208	0.999999
ydr397c	0.1492	0.0364	12.5126	4.2077	0.999892
ydr405w	0.1762	-0.1734	9.2750	3.7032	0.999571
ydr531w	0.3082	-0.0875	10.7399	5.1008	0.99999
yel016c	-0.3213	0.0602	8.7018	-5.0870	9.96E-06
yel052w	-0.2661	-0.1109	9.6051	-3.9478	2.03E-05
yel053c	-0.2457	0.0489	10.2348	-4.4971	4.8E-05
yer044c-a	0.1750	0.2010	7.6466	3.9916	0.999785
yer088c	0.2548	-0.0855	11.6211	4.0181	0.99981
yer103w	-0.6504	-0.1018	12.5555	-5.7111	1.4E-06
yfl004w	-0.5616	0.0899	10.1476	-6.2255	3.72E-07
yfl010w-a	0.3079	-0.1389	11.1798	7.0474	1
yfl016c	-0.5042	0.0440	9.8426	-7.9221	3.8E-09
yfl037w	-0.4373	-0.0843	11.4534	-5.9622	7.75E-07
yfr051c	0.2152	0.0042	9.6363	3.8676	0.999726
ygl009c	-0.3737	-0.0370	11.2030	-4.1448	0.000128
ygl070c	0.2207	0.0344	9.7894	4.4438	0.999947
ygl103w	-0.1891	-0.0721	15.3939	-3.8903	0.000258
ygl114w	0.1839	-0.0430	9.5154	3.7186	0.999589

ygl124c	-0.1962	-0.0110	10.6912	-4.8844	1.61E-05
ygl147c	0.2145	-0.0365	14.3533	3.7693	0.999642
ygl198w	-0.1612	0.0194	10.0284	-5.6518	1.85E-06
ygl200c	0.3072	0.0320	12.6459	4.1807	0.999884
ygl236c	0.3630	-0.0887	8.4203	4.2810	0.999912
ygl237c	0.5186	0.3339	8.3992	5.5898	0.999998
ygl248w	-0.1647	0.0010	8.7426	-4.1561	0.000118
ygr049w	1.2102	0.2207	9.6601	6.6454	1
ygr055w	0.4918	-0.3592	10.1450	4.7495	0.999975
ygr121c	0.3545	0.1124	8.7592	4.8456	0.999982
ygr128c	0.1366	-0.0770	10.2886	5.0177	0.999989
ygr129w	-0.1120	0.2277	8.9100	-3.8537	0.000285
ygr130c	-0.1992	0.0723	10.1981	-5.3110	0.000484
ygr138c	1.2351	-0.2046	10.7077	5.4211	0.999996
ygr157w	-0.6133	-0.1353	12.4303	-5.8647	1.02E-06
ygr241c	0.7015	-0.2473	10.9362	5.7676	0.999998
ygr267c	-0.1968	0.1190	11.4256	-4.2141	0.000106
yhr025w	-0.3571	0.0501	10.1250	-3.6844	0.000435
yhr032w	0.3510	0.1389	9.3418	4.9248	0.999986
yhr071w	-0.3671	0.1068	9.2161	-4.4015	6.27E-05
yhr146w	-0.2645	0.0595	9.9082	-4.5374	4.29E-05
yhr163w	0.5609	-0.0535	11.0550	5.4271	0.999997
yhr190w	0.4585	0.0401	11.4062	4.4987	0.999952
yil053w	-0.5206	-0.1505	13.6998	-5.0453	1.03E-05
yil088c	-0.4592	-0.0165	10.1613	-5.9671	6.74E-07
yil108w	-0.2782	0.0020	9.6626	-4.0421	0.00017
yil116w	-0.2398	-0.1220	11.0636	-8.1697	2E-09
yil117c	-0.3182	0.2213	12.5845	-5.0826	9.22E-06
yil125w	-0.1542	-0.1992	11.0732	-3.9679	0.000209
yil130w	0.1503	-0.3208	13.4507	3.6866	0.999757
yil164c	-0.6538	0.0507	8.6570	-9.6674	1E-10
yir018w	-0.2544	0.2847	7.5370	-5.6017	2.69E-06
yjl130c	0.1224	-0.0518	11.2327	3.7447	0.999801
yjl166w	0.8495	-0.0576	12.2726	4.8113	0.99998
yjl172w	0.3074	-0.2519	10.8842	3.9828	0.9998
yjl173c	-0.1979	0.0896	10.1298	-5.4743	3.05E-06
yjl174w	0.1909	-0.1448	11.8200	5.1952	0.999993

yjl183w	0.2858	-0.1479	11.1293	4.5893	0.999963
yjr007w	-0.3341	-0.1782	11.8810	-4.8145	1.97E-05
yjr047c	0.5370	-0.1000	13.8250	5.5519	0.999998
yjr048w	1.4092	0.1576	10.7622	5.6892	0.999998
yjr050w	0.1174	0.0510	9.3479	3.6840	0.999549
yjr060w	-0.7256	0.0299	9.3975	-4.7515	2.35E-05
yjr062c	-0.2107	-0.1065	10.1640	-8.1108	2.4E-09
yjr063w	0.2051	0.0435	11.0020	5.0759	0.999991
yjr077c	0.5798	-0.0356	12.7203	4.7781	0.999978
yjr078w	0.3989	0.0973	9.8533	6.6008	1
yjr085c	-0.2051	-0.0455	13.9630	-3.6928	0.000441
ykl001c	-0.4645	-0.0498	11.2281	-6.6038	1.31E-07
ykl014c	0.2721	0.0474	8.9613	5.2306	0.999994
ykl019w	0.2341	0.1088	9.6080	3.9515	0.999772
ykl029c	0.3430	-0.0869	10.3998	4.6794	0.999971
ykl058w	-0.1288	-0.1042	13.4921	-4.9306	1.42E-05
ykl060c	-0.1575	-0.2533	15.4040	-5.1197	1.6E-06
ykl067w	-0.2842	-0.2853	12.6841	-6.7595	8.53E-08
ykl072w	-0.2510	0.1857	10.1295	-5.2693	5.44E-06
ykl096w-a	0.6491	0.1313	15.3050	8.7515	1
ykl152c	-0.5018	0.0988	14.1140	-5.5545	2.43E-06
ykl196c	-0.2179	-0.0432	10.9636	-4.1383	0.00013
ykl210w	-0.2638	-0.1859	11.5088	-4.6741	2.73E-05
ykl218c	-0.3615	-0.0994	10.1854	-5.2855	5.2E-06
ykr054c	0.0528	0.1522	9.3329	1.0855	0.999986
ykr080w	-0.4909	0.0421	9.3603	-4.8594	1.73E-05
yll005c	-0.1735	0.0965	9.0816	-4.5709	3.9E-05
yll029w	0.2783	-0.0008	9.9502	4.1116	0.99986
ylr038c	0.8852	0.0569	11.7766	4.6682	0.99997
ylr058c	-0.1385	-0.0997	11.6791	-4.1328	5.47E-05
ylr096w	-0.2655	-0.0538	9.8568	-4.9893	1.2E-05
ylr153c	1.0570	-0.0934	11.5760	5.6108	0.999998
ylr222c	0.1590	-0.0905	10.7664	5.0236	0.999989
ylr223c	-0.1726	0.1844	8.9221	-4.1423	0.000129
ylr224w	-1.1647	-0.2377	11.4996	-6.4574	0.000196
ylr274w	-0.3167	-0.0095	9.9914	-5.0623	9.77E-06
ylr309c	-0.1668	-0.1024	9.5709	-3.8675	0.000274

ylr314c	-0.2915	-0.0996	10.1784	-5.3564	4.26E-06
ylr330w	-0.2645	0.2261	10.3263	-3.9371	0.000227
ylr359w	-0.5934	-0.1808	12.0338	-6.2508	3.47E-07
ylr385c	-0.2472	0.0739	8.7956	-6.5000	2.41E-07
ylr388w	0.1096	0.1175	14.7165	4.2760	0.999911
ylr395c	0.9305	-0.0404	10.2083	5.9520	0.999999
ylr396c	-0.5989	-0.0814	10.0456	-4.7941	2.08E-05
ylr413w	0.3055	-0.1441	11.1085	5.6074	0.999998
ylr421c	-0.4612	0.0929	11.4669	-5.2484	5.78E-06
ylr438w	0.3920	0.1672	9.9438	4.5515	0.999959
ylr454w	0.4073	-0.1352	10.1541	5.6465	0.999998
yml043c	0.4890	-0.3504	9.8573	4.3030	0.999917
yml054c	0.1405	0.0829	9.6908	3.7426	0.999615
yml075c	0.9772	0.0081	10.3588	5.5755	0.999998
yml092c	-0.1073	-0.0657	10.9629	-3.9692	0.000208
ymr081c	0.4043	-0.1308	8.0132	4.2151	0.999895
ymr083w	-0.2164	0.0264	12.7235	-5.1155	1.58E-06
ymr090w	0.0839	0.1004	11.9400	3.8680	0.999726
ymr122w-a	0.3467	0.1136	12.0928	4.8383	0.999995
ymr194w	0.1142	-0.0502	14.5066	3.7497	0.999622
ymr246w	0.1836	-0.0150	10.8274	3.9444	0.999778
ymr256c	0.9191	-0.0633	11.2370	5.0210	0.999989
ymr257c	-0.1932	-0.1212	11.2947	-4.9120	1.49E-05
ymr262w	-0.2752	0.2771	7.8320	-5.2869	5.71E-06
ymr318c	-0.4794	-0.1642	11.9498	-3.9944	0.000194
ynl002c	0.2642	-0.0439	10.9729	3.9687	0.999792
ynl006w	-0.5009	-0.1254	10.7671	-6.4525	1.98E-07
ynl007c	-0.5938	-0.0292	11.2518	-7.4434	1.35E-08
ynl009w	-0.3066	0.0538	9.2178	-6.1716	4.32E-07
ynl030w	0.2638	-0.0249	13.2475	4.5026	0.999953
ynl052w	0.8230	-0.2668	10.8004	4.7211	0.999972
ynl094w	-0.3052	-0.2037	8.7172	-4.8045	2.37E-05
ynl113w	0.1273	0.1732	12.1320	3.8036	0.999673
ynl156c	0.3712	0.0028	11.0236	4.1465	0.999873
ynl160w	0.7356	-0.1348	9.7262	3.7555	0.999613
ynl189w	-0.1435	-0.2111	11.8743	-3.8397	0.000296
ynl220w	-0.4963	-0.2309	12.2281	-6.3319	2.77E-07

ynl251c	0.2020	-0.0420	9.2383	3.9163	0.999749
ynl287w	-0.0963	-0.1564	11.1598	-3.8662	0.000275
ynl288w	0.1558	0.0073	9.9782	3.8462	0.999697
ynr050c	-0.1896	-0.0949	10.8392	-5.2125	6.39E-06
yol021c	0.2319	0.1585	9.4835	4.5727	0.999961
yol026c	-0.2856	0.0536	9.5022	-4.9779	1.24E-05
yol068c	-0.1546	-0.0757	10.9829	-3.8108	0.00032
yol077c	0.1996	-0.0307	11.2339	3.8619	0.999721
yol140w	0.5537	-0.1099	11.0534	6.5409	1
yol144w	0.2329	0.0600	9.1700	4.6610	0.99997
yor018w	-0.1360	0.0962	8.7063	-3.7555	0.000372
yor098c	0.7115	-0.2707	11.8758	6.3036	1
yor120w	0.2676	0.1765	8.5587	4.5544	0.999959
yor148c	-0.2067	0.0531	11.5416	-3.9269	0.000233
yor150w	0.2450	0.1447	10.5377	5.2552	0.999994
yor153w	-0.6683	-0.3503	13.0797	-10.6428	1E-10
yor202w	0.7354	-0.2211	11.7535	7.2143	1
yor206w	0.2442	-0.1857	9.4994	4.0304	0.999824
yor213c	-0.2845	-0.2472	10.0054	-5.0498	1.01E-05
yor221c	-0.3182	-0.0471	7.8458	-4.7397	3.34E-05
yor272w	0.2401	0.1393	9.6043	5.2899	0.999995
yor306c	-0.7769	-0.0169	8.6129	-6.0071	6.83E-07
yor310c	0.3076	0.0263	11.8324	5.1761	0.999993
yor326w	0.1633	-0.0375	9.7894	4.1111	0.999859
ypl013c	0.6566	0.1532	10.1899	5.0432	0.99999
ypl014w	0.7384	-0.0177	9.0599	5.1741	0.999992
ypl049c	0.2824	-0.2419	9.1914	3.6611	0.999992
ypl106c	-0.2472	-0.0936	12.1954	-3.7632	0.000364
ypl111w	0.1555	0.1682	10.9559	1.9772	0.999997
ypl144w	0.3398	-0.0272	9.7041	5.2329	0.999994
ypl147w	-0.4870	0.1869	8.3987	-6.1571	4.5E-07
ypl157w	-0.1012	-0.0048	9.7769	-3.7214	0.000408
ypl201c	-0.3147	0.0455	8.4495	-4.3937	6.41E-05
ypl240c	-0.4616	-0.2776	12.6380	-5.9647	7.7E-07
ypl255w	-0.1193	0.0599	10.0800	-3.7506	0.000377
ypl264c	-0.9704	-0.3815	8.6202	-4.3431	0.000102
ypl272c	-0.1182	0.0376	9.0703	-4.2682	9.09E-05

ypr006c	-0.3951	-0.0204	9.7407	-5.5060	2.79E-06
ypr062w	-0.1059	0.0477	14.5859	-3.8686	0.000274
ypr154w	-0.1091	-0.1533	11.0379	-4.5904	3.69E-05
yor049c	-0.0976	0.0064	8.8206	-3.5924	5.97E-05

Supplementary Table 3.

SNPs of 50 randomly selected genes for pyrosequencing analysis.

ORF	Length (bp)	No. of n.t. difference	location BY-RM (difference)
YAL037W	804	2	308 T-C,553 A-G
YBL050W	879	1	312 T-C
YCR075C	783	3	267 G-A,362 G-C,759 T-C
YDL084W	1341	3	139 A-G,363 G-T,444 C-T
YDL124W	939	9	117 G-C,222 T-C,274 C-A,286 A-G,306 T-G,389 T-C,399 A-C,610 G-C,908 G-A
YDR232W	1647	6	157 C-A,177 C-T,663 A-T,1124 C-A,1305 C-T,1573 T-C
YEL052W	1530	12	7 G-A,410 -G,633 C-T,706 G-A,878 A-G,879 T-A,1044 G-A,1236 T-C,1266 T-C,1285 T-A,1330 T-C,1452 A-G
YER103W	1929	1	1697 G-A
YFL016C	1536	8	43 T-C,141 C-T,300 G-A,415 G-A,546 C-T,810 T-C,867 T-C,1299 A-G, 1353 C-T
YFL037W	1374	3	519 G-A,1125 A-G,1337 A-G
YFR051C	1641	1	639 T-C
YGL070C	369	2	246 A-G,261 A-G
YGL114W	2178	12	466 A-C,652 G-A,945 T-C,1003 A-G,1942 -G,1960 -G,2036 -T,2064 -G,2102 -T,2115 -T,2146 C-G,2148 C-A
YGL198W	708	3	126 G-T,222 C-T,615 C-T
YGL200C	612	1	513 T-C
YGL237C	798	12	110 A-G,113 A-C,316 A-G,353 C-A,357 T-A,366 A-G,369 G-A,374 A-G,375 A-G,570 A-G,789 A-T,797 A-G
YGL248W	1110	1	796 G-A
YGR157W	2610	25	57 G-A,73 G-A,93 T-C,111 A-G,180 C-T,273 G-A,345 A-G,351 G-A,393 G-T,570 T-C,597 T-A,717 C-T,778 A-G,1135 A-G,1179 T-C,1221 G-A,1363 C-T,1386 T-C,1479 C-T,1548 C-T,1914 T-C,1990 G-A,2328 T-C,2373 A-G,2511 C-T

YGR241C	1707	5	1044 T-G,1119 C-T,1214 T-C,1317 T-G,1535 A-G
YHR025W	1074	9	162 G-A,240 A-G,321 T-C,411 G-A,450 A-C,513 G-T,525 G-A,650 T-C,699 T-C
YHR146W	1398	10	147 G-A,262 T-C,331 C-T,348 G-A,601 C-T,906 T-A,1008 G-A,1035 A-G,1260 G-A,1300 C-T
YIL116W	1158	2	165 G-A,375 C-T
YIL117C	957	3	249 A-C,548 T-C,557 C-T
YIL125W	3045	4	252 A-T,2142 A-G,2601 T-G,2767
YJL130C	6645	17	128 T-C,367 C-G,368 G-C,604 A-G,741 G-A,753 G-A,1011 T-C,1719 G-T,1758 C-T,1812 A-T,2289 T-C,4554 G-A,4998 C-T,5079 G-A,5172 C-T,5554 G-A,5793 A-G
YJR007W	908	4	276 T-C,363 C-T,417 T-C,741 T-C
YJR077C	936	3	135 C-T,375 C-T,650 A-G
YJR078W	1362	7	84 C-T,253 A-G,502 A-T,804 G-A,812 G-A,1245 T-C,1260 T-C
YKL072W	2301	1	1940 A-G
YKL152C	744	1	366 C-A
YKR054C	12279	45	5 G-T,71 A-G,204 G-C,594 G-T,793 T-C,990 G-A,1482 C-T,1523 C-T,1539 G-T,1963 A-G,2052 G-A,2510 C-T,2521 A-G,2790 G-C,3070 C-A,3228 C-A,3244 G-T,3552 T-A,3907 G-A,3975 A-G,4198 G-A,4249 _A,4530 G-A,4723 C-T,5002 C-G,5329 A-G,5574 G-A,5577 T-C,5841 G-A,5985 C-G,6980 C-T,7020 C-T,7042 A-G,7047 C-T,7675 C-T,7829 G-C,8049 T-C,8265 C-T,8806 A-G,8993 C-T,9797 G-A,9933 G-A,10028 C-G,10089 T-C,10254 C-T
YLR134W	1692	2	439 G-A,879 T-C
YLR223C	3258	4	1966 A-G,2013 G-A,2358 G-A,2988 C-A
YLR438W	1275	4	72 C-T,249 C-T,307 A-G,1092 A-C
YML075C	3165	11	8 C-T,426 T-C,1167 A-G,1248 T-C,1377 G-A,1398 C-G,1557 G-A,1605 A-G,2451 A-G,2787 T-C,2940 G-A
YMR318C	1083	3	123 A-G,642 A-G,762 T-A
YNL094W	1764	3	144 G-T,1365 C-G,1504 G-A
YNL113W	429	1	333 G-A
YNR050C	1341	2	1116 C-T,1170 T-G
YOL021C	3006	2	10 C-T,2908 C-G

YOL140W	1272	8	141 C-T,240 T-A,250 G-A,709 G-A,786 T-C,906 C-T,979 G-A,1089 G-A
YOL144W	1455	14	18 A-G,166 G-A,186 A-G,260 G-C,294 A-G,621 T-C,645 G-A,684 C-T,756 C-T,900 -AATGGAAAACCCATCCGAGGTAAA,907 A-G,1174-1176 ---,1408 T-C,1425 G-A
YOR049C	1065	7	135 T-G,144 T-C,363 A-G,372 C-T,669 A-G,732 T-G,828 T-C
YOR150W	492	1	125 G-A
YOR272W	1383	8	59 T-C,192 A-G,216 G-A,271 A-G,526 G-A,660 A-G,990 C-T,1092 C-T
YOR306C	1566	13	20 C-A,154 C-T,472 C-T,632 T-C,657 C-T,858 T-G,957 G-A,1024 A-G,1119 T-A,1307 G-A,1397 G-C,1445 T-A,1484 C-G
YOR326W	4725	6	406 C-T,1205 G-A,2409 G-A,2859 T-C,3401 C-T,4398 A-G
YPL157W	948	4	9 G-A,161 A-G,299 G-A,937 G-C
YPL264C	1062	3	683 T-C,921 C-T,957 T-C
YPR154W	648	2	344 C-G,540 –ACA

Supplementary Table 4.

Pyrosequencing of 50 randomly selected genes.

ORF	Sample	RM/BY	Standard error	P value	H0=1
YFL016C	BY+RM co-culture	0.85	0.025	0.000327	Ha≠1
	BY+RM separate culture	0.83	0.077	0.056626	1
YFL037W	BY+RM co-culture	0.89	0.032	0.00329	Ha≠1
	BY+RM separate culture	0.97	0.044	0.553875	1
YGL200C	BY+RM co-culture	1.10	0.042	0.043487	Ha≠1
	BY+RM separate culture	1.05	0.015	0.006657	Ha≠1
YIL117C	BY+RM co-culture	0.83	0.041	0.002005	Ha≠1
	BY+RM separate culture	0.61	0.049	2.53E-05	Ha≠1
YAL037W	BY+RM co-culture	0.78	0.045	0.004573	Ha≠1
	BY+RM separate culture	0.54	0.032	3.01E-05	Ha≠1
YCR075C	BY+RM co-culture	0.62	0.041	1.38E-05	Ha≠1
	BY+RM separate culture	0.52	0.028	1.18E-10	Ha≠1
YDL124W	BY+RM co-culture	0.25	0.026	2.5E-09	Ha≠1
	BY+RM separate culture	0.35	0.083	5.48E-05	Ha≠1
YDR232W	BY+RM co-culture	1.58	0.084	2.54E-05	Ha≠1
	BY+RM separate culture	1.64	0.120	0.000665	Ha≠1
YEL052W	BY+RM co-culture	0.70	0.065	0.00172	Ha≠1
	BY+RM separate culture	0.62	0.038	9.68E-08	Ha≠1
YGR157W	BY+RM co-culture	0.57	0.040	5.54E-06	Ha≠1
	BY+RM separate culture	0.52	0.030	2.67E-07	Ha≠1
YJR078W	BY+RM co-culture	0.28	0.066	4.45E-06	Ha≠1
	BY+RM separate culture	0.38	0.041	2.38E-05	Ha≠1
YKL152C	BY+RM co-culture	0.64	0.095	0.004013	Ha≠1
	BY+RM separate culture	0.63	0.091	0.009388	Ha≠1
YLR438W	BY+RM co-culture	2.70	0.192	2.04E-05	Ha≠1
	BY+RM separate culture	1.96	0.104	1.46E-05	Ha≠1
YML075C	BY+RM co-culture	3.77	0.449	0.000454	Ha≠1
	BY+RM separate culture	4.11	0.294	5.65E-06	Ha≠1
YMR318C	BY+RM co-culture	0.71	0.021	6.27E-07	Ha≠1
	BY+RM separate culture	0.67	0.055	0.000329	Ha≠1
YOL140W	BY+RM co-culture	1.28	0.033	0.001036	Ha≠1
	BY+RM separate culture	1.18	0.070	0.031441	Ha≠1
YOL144W	BY+RM co-culture	0.67	0.078	0.00141	Ha≠1

	BY+RM separate culture	0.69	0.057	0.000577	Ha≠1
YOR049C	BY+RM co-culture	0.28	0.066	4.34E-06	Ha≠1
	BY+RM separate culture	0.28	0.054	9.36E-07	Ha≠1
YOR150W	BY+RM co-culture	1.43	0.155	0.023168	Ha≠1
	BY+RM separate culture	1.72	0.102	0.002071	Ha≠1
YOR306C	BY+RM co-culture	0.48	0.025	2.67E-08	Ha≠1
	BY+RM separate culture	0.46	0.043	1.46E-06	Ha≠1
YPL157W	BY+RM co-culture	0.63	0.041	1.72E-05	Ha≠1
	BY+RM separate culture	0.67	0.055	0.000329	Ha≠1
YPL264C	BY+RM co-culture	0.56	0.080	0.000193	Ha≠1
	BY+RM separate culture	0.37	0.059	3.87E-07	Ha≠1
YBL050W	BY+RM co-culture	0.66	0.057	0.000336	Ha≠1
	BY+RM separate culture	0.92	0.025	0.015457	Ha≠1
YDL084W	BY+RM co-culture	0.86	0.033	0.002388	Ha≠1
	BY+RM separate culture	0.83	0.019	0.000298	Ha≠1
YER103W	BY+RM co-culture	0.53	0.031	4.18E-07	Ha≠1
	BY+RM separate culture	0.59	0.063	0.000207	Ha≠1
YGL198W	BY+RM co-culture	0.92	0.032	0.029185	Ha≠1
	BY+RM separate culture	0.95	0.019	0.014146	Ha≠1
YGL248W	BY+RM co-culture	0.80	0.064	0.010666	Ha≠1
	BY+RM separate culture	0.84	0.066	0.042597	Ha≠1
YGR241C	BY+RM co-culture	1.21	0.090	0.046584	Ha≠1
	BY+RM separate culture	1.07	0.062	0.321398	1
YHR146W	BY+RM co-culture	0.61	0.051	6.04E-05	Ha≠1
	BY+RM separate culture	0.78	0.030	2.29E-05	Ha≠1
YJL130C	BY+RM co-culture	1.18	0.037	0.001421	Ha≠1
	BY+RM separate culture	1.01	0.045	0.801145	1
YJR077C	BY+RM co-culture	1.95	0.162	0.000603	Ha≠1
	BY+RM separate culture	2.14	0.151	0.00028	Ha≠1
YKL072W	BY+RM co-culture	0.47	0.080	1.06E-05	Ha≠1
	BY+RM separate culture	0.49	0.092	0.000558	Ha≠1
YKR054C	BY+RM co-culture	0.67	0.107	0.014119	Ha≠1
	BY+RM separate culture	0.66	0.098	0.008634	Ha≠1
YLR223C	BY+RM co-culture	0.68	0.024	9.77E-07	Ha≠1
	BY+RM separate culture	0.85	0.031	0.004933	Ha≠1
YNL094W	BY+RM co-culture	0.70	0.038	5.03E-05	Ha≠1
	BY+RM separate culture	0.69	0.044	9.84E-05	Ha≠1

YNL113W	BY+RM co-culture	0.91	0.029	0.013394	Ha≠1
	BY+RM separate culture	1.12	0.039	0.014088	Ha≠1
YNR050C	BY+RM co-culture	0.81	0.044	0.002708	Ha≠1
	BY+RM separate culture	0.88	0.029	0.010612	Ha≠1
YOL021C	BY+RM co-culture	0.91	0.040	0.049487	Ha≠1
	BY+RM separate culture	1.02	0.018	0.307692	1
YOR326W	BY+RM co-culture	0.90	0.038	0.021039	Ha≠1
	BY+RM separate culture	0.83	0.064	0.018545	Ha≠1
YPR154W	BY+RM co-culture	0.63	0.046	4.69E-05	Ha≠1
	BY+RM separate culture	0.80	0.046	0.002248	Ha≠1
YFR051C	BY+RM co-culture	1.04	0.047	0.373991	1
	BY+RM separate culture	1.01	0.047	0.813884	1
YGL070C	BY+RM co-culture	0.97	0.032	0.410928	1
	BY+RM separate culture	1.21	0.036	5.01E-05	Ha≠1
YGL114W	BY+RM co-culture	0.96	0.031	0.214061	1
	BY+RM separate culture	0.77	0.066	0.003701	Ha≠1
YGL237C	BY+RM co-culture	0.98	0.029	0.430716	1
	BY+RM separate culture	1.42	0.087	0.004801	Ha≠1
YHR025W	BY+RM co-culture	1.03	0.031	0.317769	1
	BY+RM separate culture	0.98	0.041	0.588674	1
YIL116W	BY+RM co-culture	1.00	0.059	0.957443	1
	BY+RM separate culture	1.09	0.031	0.031605	Ha≠1
YIL125W	BY+RM co-culture	1.04	0.033	0.201833	1
	BY+RM separate culture	1.07	0.029	0.021621	Ha≠1
YJR007W	BY+RM co-culture	1.04	0.037	0.289481	1
	BY+RM separate culture	1.09	0.054	0.114569	1
YLR134W	BY+RM co-culture	0.97	0.048	0.4955	1
	BY+RM separate culture	1.30	0.094	0.008904	Ha≠1
YOR272W	BY+RM co-culture	1.01	0.036	0.860345	1
	BY+RM separate culture	1.05	0.023	0.086889	1

Supplementary Table 5.

Primers used for pyrosequencing and real-time PCR analysis

A. Primers used for pyrosequencing

Primer	Sequence
YAL037W-F-234-255	GGGACACCGCTGATCGTTTAAGCAGCAGTAGCAACAAAGAAG
YAL037W-R-412-432	CTGTACCAAGGGCTCACCCT
YAL037W-S-309-326 (R)	ATCTGCAAGTACTGTCCA
YBL050W-CD-F-264-285	GGGACACCGCTGATCGTTTAAAGCGGTGGAACTCTGTGAAC
YBL050W-CD-R-441-460	CCGACTGGTCTTGGGCATAC
YBL050W-CD-S-313-332 (R)	CCCCTATGAGTAAAAATTTG
YCR075C-F-292-312	GGGACACCGCTGATCGTTTAGTGGTAGCTGGAGCGAGAATC
YCR075C-R-449-469	TGTTGCAATACGCCAGAGTTC
YCR075C-S-363-381 (R)	CAGTGATGCGAGTAAAATC
YDL084W-F-386-405	GTGAAGTTGCCGTTGTTGTC
YDL084W-R-535-559	GGGACACCGCTGATCGTTTATGTGAGGAGCAGTATCTTTATTCTT
YDL084W-S-426-441 (F)	GGCCTATCAAATTCGT
YDL124W-F-324-346	GGGACACCGCTGATCGTTTAGAAGAAGATGGGCACTGACTATG
YDL124W-R-464-484	CCACAGCAAAGTTGGAAACAC
YDL124W-S-400-415 (R)	AGGCTTCCTCCAACT
YDR232W-F-1006-1029	GGGACACCGCTGATCGTTTAGGTAAGTCTTTCGGTAGCGTAGGT
YDR232W-R-1172-1194	GGTATGTTTCTGTTGCGAGGTTC
YDR232W-S-1125-1137 (R)	GCTGCGGTAGCGCCT
YEL052W-F-951-969	TTTCGCACAGGCTTCCCAC
YEL052W-R-1123-1145	GGGACACCGCTGATCGTTTATTTGCCAACGTCAAGTAATCTCC

YEL052W-S-1027-1043 (F)	ACTATTTGGGGGAGAGA
YER103W-F-1618-1641	GGGACACCGCTGATCGTTTACTAGAATCGTACGCGTTTACTTTG
YER103W-R-1778-1800	AACACCTTCTAGTTCCTTTTGCC
YER103W-S-1698-1712 (R)	GCGGCTTCCAATTC
YFL016C-F-1252-1272	GGGACACCGCTGATCGTTTACGCGGTGATATGAAAGTCCAG
YFL016C-R-1428-1450	TTGCGTGTTTTTCCTCTTCTTGT
YFL016C-S-1354-1368 (R)	GGTTTTCTTGGCCAT
YFL037W-F-1055-1075	GGGACACCGCTGATCGTTTACTGTGTGTTCTGTCGCTCCTC
YFL037W-R-1201-1222	ATTCCAATTCGTCCATACCTTC
YFL037W-S-1126-1145 (R)	CCAACTCTCTTGAATAGCTC
YGL198W-F-64-81	GCTGCTTCCGGGGGTGTT
YGL198W-R-203-221	GGGACACCGCTGATCGTTTAAATGAGGGGAAATGCGGGT
YGL198W-S-112-125 (F)	TCAGGCAGCAGAGG
YGL200C-F-391-414	ACATTGGATAGTGCTGTCAGAAAG
YGL200C-R-539-560	GGGACACCGCTGATCGTTTAAGAGAGTTTGCAATAACGACGC
YGL200C-S-497-512 (F)	CGACCAACGATCGTGT
YGL248W-714-738	GGGACACCGCTGATCGTTTATATAATAGTTTGCGGAGATGTTGAG
YGL248W-R-860-879	ACCATACAATTGCTCGGGCT
YGL248W-S-797-814 (R)	GCACAAGCGGTATATTTT
YGR157W-F-2302-2320	GGTAACTCCCATAAGGTGT
YGR157W-R-2461-2481	GGGACACCGCTGATCGTTTACAAGCTGTCCATCCCGAAGAA
YGR157W-S-2354-2372 (F)	CGGTACTAAATACCACGAC
YGR241C-F-1276-1294	TCAGGGTTCGGCGGATACA
YGR241C-R-1437-1456	GGGACACCGCTGATCGTTTATCGGGGTGGTTTGTGCTTGT

YGR241C-S-1299-1313 (F)	CACCGAGAACAATGC
YHR146W-F-930-950	GGGACACCGCTGATCGTTTAATTACCAACTCCGGAAGCACA
YHR146W-R-1092-1114	TAACGATGGGGTCTAATGTAAAG
YHR146W-S-1036-1053 (R)	GGAACCGTCTAATACACC
YIL117C-F-461-484	GGGACACCGCTGATCGTTTAGAAATAAGGATGAATCGGTGAAAG
YIL117C-R-577-599	CCTGTTGGTGAAATGAAAAGTGA
YIL117C-S-560-575 (R)	TTTCTGTTGGATTCCG
YJL130C-F-5690-5711	CCATCCAGAATTTGATCCGTAG
YJL130C-5812-5834	GGGACACCGCTGATCGTTTATCTAAGACACCTTCTCTTGCGAC
YJL130C-S-5777-5792 (F)	TGTTGTTTGCTGTTGC
YJR077C-F-600-617	GTTCGCCGGTCCAAAAGA
YJR077C-R-764-782	GGGACACCGCTGATCGTTTAGCCAAGTGAAGCAACAAAC
YJR077C-S-631-649 (F)	ACTTCCACTACTTTGTTGA
YJR078W-F-714-736	GGGACACCGCTGATCGTTTAGGAGCTTAAGTGTGAACCCAATG
YJR078W-R-879-900	ACCCAAAAGGATGTCCAGTGTC
YJR078W-S-813-827 (R)	CCTTCCGCTCCATAC
YKL072W-F-1886-1908	GGGACACCGCTGATCGTTTAATGGTAACATGCAAAACAAACAG
YKL072W-R-1994-2014	CTACGCTGGCTTCAACATCTC
YKL072W-S-1941-1959 (R)	CAGTTTCGAAGAAAGTGAT
YKL152C-F-279-300	ACAAGGTAAGGACAAGGCTGAA
YKL152C-R-424-443	GGGACACCGCTGATCGTTTATCTGGCAAGACATTTGGGTC
YKL152C-S-351-365 (F)	CGATGTTCCACCTCC
YKR054C-F-9934-9957	GGGACACCGCTGATCGTTTACAATTTAGTAAGACGAGCCAAGAG
YKR054C-R-10093-10117	GTGTTACCAAATAATCGATGAAACG

YKR054C-S-10090-10109 (R)	AAATAATCGATGAAACGATA
YLR223C-F-2878-2897	GCCGTGGACAGCAATACAAG
YLR223C-R-3026-3046	GGGACACCGCTGATCGTTTATGCTAGGATATCGGCGTCAG
YLR223C-S-2968-2987 (F)	CTGTCTGTAGGTGATATTAA
YLR438W-F-990-1011	GGGACACCGCTGATCGTTTACCAACTGGGTAGCTCTTTCATC
YLR438W-R-1136-1158	GCCGTGATCCTTCATCAATAGAC
YLR438W-S-1093-1108 (R)	CCTTGGATGGGTCGAT
YML075C-F-2688-2709	TCCGCATTGGTTGAGTTGAA
YML075C-R-2818-2839	GGGACACCGCTGATCGTTTATTCTCAAATCACCGTCCACTTC
YML075C-S-2769-2785 (F)	AGATCCTGCACAAAATG
YMR318C-F-664-682	ATGGGCGCCGATCACTACA
YMR318C-R-797-819	GGGACACCGCTGATCGTTTAGACAATTCTACCACCAACCTTCA
YMR318C-S-746-761 (F)	TCTGTGCTTCCTCCCT
YNL094W-F-1458-1481	GGGACACCGCTGATCGTTTAACCGAAAGTATAAGAATGTCACG
YNL094W-R-1626-1648	CTCTTCTCTTCCATTCATCTGCT
YNL094W-S-1506-1521 (R)	TGGGGCAACTCTTTTA
YNL113W-F-214-232	CTTGGAAATGCCCTTCGTT
YNL113W-R-371-394	GGGACACCGCTGATCGTTTACTACAACGTCACATAAATCCATCA
YNL113W-S-318-332 (F)	AACCTACGGTGAAAC
YNR050C-F-1040-1063	GGGACACCGCTGATCGTTTATGCAATATGAAGACAATGAAAGAG
YNR050C-R-1186-1205	GCAATGGCAACTGGATAACC
YNR050C-S-1172-1186 (R)	CAACAGTAGCGGCCA
YOL021C-F-2800-2820	GGCGTGGAAGGCTTGATAAGA
YOL021C-R-2947-2967	GGGACACCGCTGATCGTTTATGGATCCATCACCGACCTAAC

YOL021C-S-2888-2907 (F)	TGCCTACAAATTCAGATAAA
YOL140W-F-1038-1061	GGGACACCGCTGATCGTTTATCAAGCCAAATATCCAAATCAAAT
YOL140W-R-1179-1200	TAATGCGGGAACAAATCTAACG
YOL140W-S-1090-1105 (R)	CGAACTCAGCACCAAG
YOL144W-F-569-589	GGAAAAACGGATACAACCACA
YOL144W-R-686-706	GGGACACCGCTGATCGTTTACATCGCTGTCCATCTCTCCAC
YOL144W-S-665-683 (F)	CAAAAGATGAAAACGTTTG
YOR049C-F-276-296	GGGACACCGCTGATCGTTTATACGGCCACAGGTTCTCTTT
YOR049C-R-409-427	GATTGCCGGTTGTTGTGGA
YOR049C-S-373-387 (R)	ACCACACAGGCCACC
YOR150W-F-31-48	GGGACACCGCTGATCGTTTAGCTTTTGCGCGCCTTTGG
YOR150W-R-190-213	TTTCTTACCTGTTACACGGATTTT
YOR150W-S-126-143 (R)	TGATAGACCGGCTTATGT
YOR306C-F-846-868	GGCTTTGCTAACTCTGTCAATCA
YOR306C-R-1003-1023	GGGACACCGCTGATCGTTTAAATACCGTTCCCAGGACACA
YOR306C-S-935-954 (F)	ACATACTCAGAGTTTATATT
YOR326W-F-3352-3375	TCCGACTTATCTCCTAATGATTG
YOR326W-R-3513-3533	GGGACACCGCTGATCGTTTAGGCCTTCCGTGATTCTTGA
YOR326W-S-3381-3400 (F)	AAAGTCTAGATCTACTCCAT
YPL157W-F-58-82	GGGACACCGCTGATCGTTTACATCATTCCTCACTTTAGAACTCTGA
YPL157W-R-209-229	TGAACCACAGCTCATCAGTCA
YPL157W-S-162-180 (R)	AAACAATCTACGCCTATTT
YPL264C-F-592-611	GGGACACCGCTGATCGTTTAGGGGTTTGCGGATTGAGTAG
YPL264C-R-731-752	CACGAATGAGGCAGTTGTAAAG

YPL264C-S-684-701 (R)	GCTGCCACAACAGTAGTA
YPR154W-F-272-294	GGTACAAGGGTAGCTGTAATGGC
YPR154W-R-428-451	GGGACACCGCTGATCGTTTAGAAATGGCTGCTGTTGATAAGATG
YPR154W-S-328-343 (F)	CCAGCTTTCTCTGGGT
YFR051C-F-556-574	TACGACGGCGCCAATAGGT
YFR051C-R-719-737	GGGACACCGCTGATCGTTTAGAATGTCCCGCACGCTGAG
YFR051C-S-621-638 (F)	CTACTCCCATGCTTCTCC
YGL070C-F-187-205	GGTTCCGATCCCACTCTTC
YGL070C-R-316-640	GGGACACCGCTGATCGTTTAGATCTGAAGTAAATATGTGTGAGCA
YGL070C-S-243-260 (F)	GGAAAATGTGTTTTTTCA
YGL114W-F-877-895	GGGACACCGCTGATCGTTTATGGAATTTTCAGCCGTCGC
YGL114W-R-1015-1034	TCGTGGACATCAGCATCTGG
YGL114W-S-946-960 (R)	GCACCCGATAAGCAT
YGL237C-F-521-543	GGGACACCGCTGATCGTTTAGGCGATATGCAAGAGCTAAACTA
YGL237C-R-681-702	AGGATCATCGCTAGCCCCACTT
YGL237C-S-571-586 (R)	GTGTAAGTATGGCTTTTCG
YHR025W-F-470-488	GGGACACCGCTGATCGTTTAGCTTTTGCGGTTTCATTCCT
YHR025W-R-616-636	GGGGTTCCATTGGTATTTGAC
YHR025W-S-526-541 (R)	CCTCAGCCAATGGAAT
YIL116W-F-326-345	GGGACACCGCTGATCGTTTATTCCCGGGAAAGAAAAGATT
YIL116W-R-455-477	CAAAATGGTTAATACAGCTTCGG
YIL116W-S-376-393 (R)	AATGTTTGCACAAACAGA
YIL125W-F-2513-2533	ATCGTCAATTCCGTAAACCAT
YIL125W-R-2675-2696	GGGACACCGCTGATCGTTTATGGCCACTCAGCAAAACTAATC

YIL125W-S-2584-2600 (F)	TCTCTTTCCGAATTCAC
YJR007W-F-663-681	GGGACACCGCTGATCGTTTAATTAGTCGCCGCCCATTA
YJR007W-R-801-823	CAGTAGCAGTGACAGCCTTTGGT
YJR007W-S-743-762 (R)	AACCTCTGTAATTTTTTCAA
YLR134W-F-805-828	AGACCAGAAGTTAAGAAGGCTGTA
YLR134W-R-960-980	GGGACACCGCTGATCGTTTATTCATTTGAACACCTGGGAAG
YLR134W-S-863-878 (F)	TGCTTTGTTGTCTGATTTC
YOR272W-F-1043-1060	GGGACACCGCTGATCGTTTACCAGCGCCAGACACATCA
YOR272W-R-1170-1189	CGTGAGAACCCGAGCATAAT
YOR272W-S-1093-1112 (R)	AGTTGTTGCTGAGTAACTTT

B. Primers used for promoter swapping

RT-YCR075C+597F	CGCCTCGCTGCTCCAAT
RT-YCR075C+673R	CAAAATTTGTCACGAACGTATCCA
2-YCR075C-TEST-F680	TCTGGAGGGCTTCCCAAT
2-YCR075C-TEST+R172	GCAAAAATATGGATATGACCAGG
2-YCR075C-URA-F450	GACGAACCATTTGGTCCTGGATCTGGCGGATTTGGAGGTTAGATTGTACTGAGAGTGCAC
2-YCR075C-URA+R10	ATCGTCTAACGACACCATTTTGCTTCGCGTTTGCTTTTGTCTGTGCGGTATTTACACCG
RT-YDL137W-F	ACACTACTACAGAAACACCGAAGG
RT-YDL137W-R	AGCGAAGACTAACCAGACAGC
YDL137W-TEST-F800	CCAACATGATAGACATAGAAAAGAA
YDL137W-TEST+R216	GTGTCTCCATAAAGATCTAATCCTG
YDL137W-URA-F600	TTTCCTAAATCACCGGGTTCCAGATGCGGGTTGTTGTTGTAGATTGTACTGAGAGTGCAC
YDL137W-URA+R50	CATAAGTATACGCATCTCTTTGTTGCCAAAAGATTGCTGCTGTGCGGTATTTACACCG

RT-YEL052W-F	CGCCAACAGATTACCGTAAGATTC
RT-YEL052W-R	TGGGAAGCCTGTGCGAAATAG
YEL052W-F1-532-URA	TATACTGTCTACTTCCATTCTCGGAAACGTACCAGCTATTAGATTGTACTGAGAGTGCAC
YEL052W-R1+67-URA	TGACTTCGTAGATTGATACCGACAAATGCGAAAGCTGCAACTGTGCGGTATTTACACCG
YER052W-F2-724-TEST	CTTGCCAACGGTGGATCGTA
YER052W-R2+272-TEST	GCCACGGCTAAATACGGATTTA
RT-YEL053C-F	ACACATTCTTTAGAGGTCAACAAC
RT-YEL053C-R	TCATTCAGCCAGGAGATAACAC
RT-YFL004W-F	CGACAGAGAGCGTCCAATTAGAG
RT-YFL004W-R	GAAACTTAGCATACTCGCCTCCTC
YFL004W-TEST-F950	TGGCGAAGTTAATCCAAGA
YFL004W-TEST+R50	GCCCTCATAATTAATATAAGAACCC
YFL004W-URA-F750	GCTTGATTCTTTTTTCCCTTTTTTCTCAATATTCGCAGGTTAGATTGTACTGAGAGTGCAC
YFL004W-URA-R150	CGATAGAAAAGATAAGACGAAGAGAGCCTGCCTTTTTTGACTGTGCGGTATTTACACCG
RT-YGR157W-F1	ATTGGTACCGTAGCGGCACTTA
RT-YGR157W-R1	AAACCTAGCATTGATTGTTTCCTA
YGR157W -TEST-F950	TTACCTCTGCAACAACAACCGT
YGR157W -TEST+R100	GGGGATAAAATGAAGAAAAGAAG
YGR157W -URA-F800	GGCGAAACTGCAATTACTACCTGAAAACCAACAAGATATGGATTGTACTGAGAGTGCAC
YGR157W -URA-R300	AGATCCACGTTATCTAACATTTGAGGTTTTGCCGTTTCTGACTGTGCGGTATTTACACCG
RT-YLR438W+1020F	GAAAGCTCTCCAAGCCAAATCTAA
RT-YLR438W+1090R	CGATTACGATGGCGGTAAGC
YLR438W-TEST-F700	AATCTCTAATGACACCCGGCTGTA
YLR438W-TEST+R276	GAAGAATTCGGTCACGAACTTG

YLR438W-URA-F500	ACGAGGCTGCTTGCCCATTCAGTTGTGCGTCCATTAAGTAGATTGTACTGAGAGTGCAC
YLR438W-URA+R70	ACACATGTGCGCCCTTAGCCTTGTGAAAAACGACGGGCAACTGTGCGGTATTTACACACCG
RT-YML075C+3039F	CGGCCATTTGGTTCAAAGTC
RT-YML075C+3115R	TGGCGTCCAAATTGTTAGGTTT
2-YML075C-TEST+R20	TTGCCATCTGTTTCAGTCCCTT
2-YML075C-TEST-F800	ACTGTGAACGATAACCGCCA
2-YML075C-URA-F660	ATTGATGGATTCCAGCCGTTCTCTTCCAACCCCTTTTACCAGATTGTACTGAGAGTGCAC
2-YML075C-URA-R160	ATCAAAAAACCGAAGACGAATATAGCTCTTCAAGTTGTCCTGTGCGGTATTTACACACCG
RT-YOR306C-F	ACTGTCCTTTGCCATTGTCTG
RT- YOR306C-R	GACGCCACCCACACTACC
YOR306C-TEST-F1150	TAAACTGTTACCCCAACCCC
YOR306C-TEST+R233	TGCGTGCTCGAGGTATTTT
YOR306C-URA-F950	CATGCGATTACAAAGCAAAAGAGAAGATTCGCATGCAGGAAGATTGTACTGAGAGTGCAC
YOR306C-URA+R40	CTAAATCAGGTTGCCGCAGTTGGTTGGTTTGTCTTCTGGCTGTGCGGTATTTACACACCG
RT-YPL157W+780F	GGAATGCTTTTTTAACTACGAACCA
RT-YPL157W+865R	TTCGTTTTTCAGAACTCAGCTCTTC
YPL157W-TEST-F450	GCCAAATTTATTTGAGCACTATTG
YPL157W-TEST+R198	CGCCGAATCTATCTTTGAAAAC
YPL157W-URA-F330	CTGCTGAAAGCCCAGCAATCTGGTTATCCCAGTTGAACATAGATTGTACTGAGAGTGCAC
YPL157W-URA+R70	TTGGAATGATGTTTTCTTTTGCGTGCCGCATGTTTTATTTCTGTGCGGTATTTACACACCG