

Supplementary Table 2: Raw data for all YFP and GUS experiments						
		OD750	CHL	(YFP/CHL)/OD norm		
fcpB YFP	EXP5-1	0.910	0.156	0.171		
	EXP5-2	0.824	0.142	0.172		
	EXP5-3	0.883	0.209	0.237		
	EXP5-4	0.895	0.130	0.145		
	EXP5-5	0.834	0.101	0.121		
	EXP5-6	0.907	0.129	0.142		
	EXP5-7	0.894	0.158	0.177		
	EXP5-8	0.840	0.095	0.113		
	EXP1-1	0.744	0.128	0.172		
	EXP1-2	0.830	0.051	0.061		
	EXP1-3	0.834	0.170	0.204		
	EXP1-4	0.866	0.159	0.184		
	EXP1-5	0.674	0.097	0.144		
	EXP1-6	0.807	0.136	0.169		
	EXP1-7	0.846	0.130	0.154		
	EXP1-8	0.978	0.139	0.142		
	EXP2-1	0.757	0.082	0.108		
	EXP2-2	0.824	0.182	0.221		
	EXP2-3	0.749	0.126	0.168		
	EXP2-4	0.784	0.153	0.195		
	EXP2-5	0.837	0.071	0.085		
	EXP2-6	0.829	0.146	0.176		
	EXP2-7	0.803	0.069	0.086		
	EXP2-8	0.899	0.067	0.075		
	EXP3-1	0.817	0.161	0.197		
	EXP3-2	0.767	0.112	0.146		
	EXP3-3	0.838	0.085	0.101		
	EXP3-4	0.810	0.131	0.162		
	EXP3-5	0.824	0.177	0.215		
	EXP3-6	0.851	0.057	0.067		
	EXP3-7	0.741	0.103	0.139		
	EXP3-8	0.764	0.101	0.132		
	EXP4-1	0.792	0.179	0.226		
	EXP4-2	0.805	0.213	0.265		
	EXP4-3	0.781	0.208	0.266		
	EXP4-4	0.791	0.095	0.120		
	EXP4-5	0.810	0.167	0.206		
	EXP4-6	0.846	0.153	0.181		
	EXP4-7	0.873	0.199	0.228		
	EXP4-8	0.842	0.152	0.181		

		rep 1	rep 2	rep 3	average	stdev
fcpB GUS	pos control	3000.056	2880.922	2923.033	2934.670	60.414
	neg control	29.277	28.276	30.585	29.379	1.158
	EXP5-1	2147.891	2231.566	2591.900	2323.786	235.933
	EXP5-2	3496.527	3451.718	3335.573	3427.939	83.070
	EXP5-3	3357.483	3410.573	2695.446	3154.501	398.438
	EXP5-4	1820.147	1805.168	1421.783	1682.366	225.796
	EXP5-5	2825.937	2399.295	2001.892	2409.041	412.109
	EXP5-6	3640.465	3468.755	3031.847	3380.356	313.791
	EXP6-1	1650.309	1666.056	1409.751	1575.372	143.648
	EXP6-2	95.746	93.449	61.774	83.656	18.985
	EXP6-3	2910.888	3111.175	2433.644	2818.569	348.072
	EXP6-4	3475.072	3792.537	2895.650	3387.753	454.775
	EXP6-5	3850.809	3660.912	3075.135	3528.952	404.324
	EXP6-6	3531.307	3546.752	2925.276	3334.445	354.435
	EXP7-1	100.856	94.454	91.124	95.478	4.946
	EXP7-2	2643.466	2594.938	2651.884	2630.096	30.737
	EXP7-3	1272.408	1276.487	1204.873	1251.256	40.221
	EXP7-4	2927.877	2737.370	2949.814	2871.687	116.838
	EXP7-5	2870.442	2957.250	2746.187	2857.960	106.084
	EXP7-6	2580.570	2821.828	2756.895	2719.764	124.841
	EXP8-1	2250.587	2314.791	2565.493	2376.957	166.403
	EXP8-2	3335.010	3595.697	3633.920	3521.542	162.669
	EXP8-3	1938.908	2255.722	2313.822	2169.484	201.787
	EXP8-4	2100.536	2054.654	2293.233	2149.474	126.595
	EXP8-5	2356.144	2890.880	2888.889	2711.971	308.157
	EXP8-6	2419.958	1974.795	2457.109	2283.954	268.383
	EXP9-1	2380.150	2351.150	2359.835	2363.712	14.884
	EXP9-2	3914.888	4002.275	2612.513	3509.892	778.381
	EXP9-3	1075.558	1058.278	1069.121	1067.652	8.733
	EXP9-4	3419.808	3463.218	3499.975	3461.000	40.130
	EXP9-5	2282.988	2320.763	2258.901	2287.551	31.183
	EXP9-6	2623.940	2976.856	2763.832	2788.210	177.717
	EXP10-1	3484.614	3366.408	3278.149	3376.390	103.594
	EXP10-2	3372.733	3029.054	3078.213	3160.000	185.865
	EXP10-3	1479.013	1561.151	1349.928	1463.364	106.478
	EXP10-4	2820.288	2359.156	2312.752	2497.399	280.591
	EXP10-5	3681.501	3203.215	3209.989	3364.902	274.204
	EXP10-6	3757.999	3566.132	3417.213	3580.448	170.843
49202 GUS	pos control	4219.711	4320.274	4235.912	4258.632	53.995
	neg control	13.452	24.648	10.289	16.130	7.545

	EXP15-1	41.882	45.867	48.443	45.397	3.305
	EXP15-2	4312.514	4595.506	3405.774	4104.598	621.520
	EXP15-3	1972.256	1780.378	1396.828	1716.487	292.986
	EXP15-4	2795.942	2703.319	2065.358	2521.540	397.770
	EXP15-5	3286.229	3967.872	3798.651	3684.251	354.929
	EXP15-6	67.387	63.698	53.010	61.365	7.467
	EXP16-1	3255.780	2612.758	3601.429	3156.656	501.734
	EXP16-2	3448.505	3397.707	3163.228	3336.480	152.176
	EXP16-3	4156.458	3999.312	4218.995	4124.922	113.186
	EXP16-4	779.055	715.580	790.924	761.853	40.511
	EXP16-5	1896.986	2007.144	2080.554	1994.895	92.395
	EXP16-6	4072.338	4095.512	3717.035	3961.628	212.141
	EXP17-1	3120.910	2926.258	2854.664	2967.277	137.781
	EXP17-2	3053.671	3029.024	3435.894	3172.863	228.124
	EXP17-3	3834.299	3760.292	3514.188	3702.926	167.589
	EXP17-4	3274.873	2979.672	3053.331	3102.625	153.650
	EXP17-5	3964.992	3878.953	3481.037	3774.994	258.183
	EXP17-6	3834.429	3880.967	3446.084	3720.493	238.782
	EXP18-1	3555.818	3495.400	3783.376	3611.532	151.857
	EXP18-2	4997.315	4671.234	4605.988	4758.179	209.652
	EXP18-3	3335.098	3472.519	3267.738	3358.451	104.369
	EXP18-4	5007.173	4676.800	4654.525	4779.499	197.485
	EXP18-5	36.357	38.466	36.310	37.044	1.232
	EXP18-6	4820.121	5590.986	5281.717	5230.941	387.933
	EXP19-1	2844.615	2566.601	2512.449	2641.222	178.213
	EXP19-2	2553.849	2612.450	2704.401	2623.566	75.889
	EXP19-3	3277.274	3002.278	3241.324	3173.625	149.476
	EXP19-4	3468.221	3499.223	3078.502	3348.648	234.467
	EXP19-5	3217.888	3222.065	2673.198	3037.717	315.690
	EXP19-6	2124.495	2212.669	1999.176	2112.113	107.284
	EXP20-1	2552.165	2316.338	2346.492	2404.998	128.339
	EXP20-2	2549.664	2857.049	2883.698	2763.470	185.640
	EXP20-3	2305.472	2072.838	2041.067	2139.792	144.359
	EXP20-4	2933.865	2989.237	3229.897	3051.000	157.384
	EXP20-5	968.161	1125.953	1059.180	1051.098	79.206
	EXP20-6	870.694	860.835	838.788	856.772	16.336
snRNA GUS	pos control	4883.356	4762.533	4832.682	4826.190	381.436
	neg control	6.500	8.919	6.246	7.220	1.749
	EXP21-1	3617.504	4329.548	3713.947	3887.000	386.279
	EXP21-2	2631.388	2440.130	2557.648	2543.055	96.461
	EXP21-3	4768.379	4568.290	4471.947	4602.872	151.212
	EXP21-4	3694.881	3520.905	3315.080	3510.288	190.123

	EXP21-5	4027.687	3763.154	3834.444	3875.095	136.872
	EXP21-6	3341.653	3511.948	3745.507	3533.036	202.751
	EXP22-2	2652.302	2482.510	2584.216	2573.009	85.449
	EXP22-3	2309.301	2112.775	2166.641	2196.239	101.551
	EXP22-4	4022.115	4439.356	3914.975	4125.482	277.051
	EXP22-5	3020.875	2980.080	2283.339	2761.431	414.542
	EXP22-6	4794.512	4892.349	4672.692	4786.518	110.046
	EXP22-7	4013.542	4231.290	4114.124	4119.652	108.979
	EXP23-1	4192.413	4353.985	4620.924	4389.107	216.404
	EXP23-2	3485.749	3423.269	3736.523	3548.514	165.791
	EXP23-3	3044.305	2939.471	3020.104	3001.293	54.890
	EXP23-4	2510.343	2114.486	2213.158	2279.329	206.057
	EXP23-5	4097.971	4004.152	3840.682	3980.935	130.206
	EXP23-6	7001.174	7030.429	6466.998	6832.867	317.189
	EXP24-1	4122.875	4368.387	3835.848	4109.037	266.539
	EXP24-2	4658.716	4896.971	4879.823	4811.837	132.883
	EXP24-3	3089.405	3227.205	3484.884	3267.164	200.745
	EXP24-4	2519.719	2397.514	2646.495	2521.243	124.497
	EXP24-5	3657.234	3666.922	3836.152	3720.103	100.618
	EXP24-6	2523.743	2402.369	2544.398	2490.170	76.736
	EXP25-1	3848.975	3638.142	3591.516	3692.878	137.179
	EXP25-2	2526.742	2937.722	2927.665	2797.376	234.430
	EXP25-3	5568.356	5791.104	5875.586	5745.015	158.715
	EXP25-4	4233.397	4225.802	4284.182	4247.794	31.741
	EXP25-5	2881.220	3010.661	2872.246	2921.376	77.453
	EXP25-6	3573.112	3674.612	3636.157	3627.960	51.244
	EXP26-1	3393.097	3419.893	3177.568	3330.186	132.848
	EXP26-2	3012.438	2997.538	2987.562	2999.179	12.519
	EXP26-3	4761.437	4685.995	4824.189	4757.207	69.194
	EXP26-4	4422.122	5003.185	4747.176	4724.161	291.215
	EXP26-5	1203.826	1293.390	981.588	1159.601	160.536
	EXP26-6	937.053	926.827	911.306	925.062	12.964
H4 GUS	pos control 1	1070.329	1061.007	1025.452	1052.262	23.682
	neg control 1	21.276	21.196	26.894	23.122	3.267
	EXP27-1	1656.323	1546.017	1474.763	1559.034	91.477
	EXP27-2	1393.067	1320.605	1344.759	1352.811	36.896
	EXP27-3	1110.233	1114.823	1119.306	1114.788	4.536
	EXP27-4	1366.667	1341.170	1361.520	1356.452	13.483
	EXP27-5	1220.474	1162.040	1198.907	1193.807	29.549
	EXP27-6	1901.258	1863.482	1909.061	1891.267	24.377
	EXP28-1	1154.724	1270.647	1200.497	1208.623	58.387
	EXP28-2	1106.723	952.794	1160.397	1073.305	107.761

	EXP28-3	1176.009	1218.829	1169.111	1187.983	26.935
	EXP28-4	1705.388	1649.750	1821.850	1725.663	87.823
	EXP28-5	1210.585	1155.420	1076.234	1147.413	67.533
	EXP28-6	1108.410	1100.700	1097.802	1102.304	5.483
	EXP29-1	1430.017	1527.597	1413.891	1457.168	61.524
	EXP29-2	810.075	846.826	911.800	856.234	51.511
	EXP29-3	357.820	386.443	334.815	359.693	25.865
	EXP29-4	1177.952	1208.904	1157.924	1181.593	25.684
	EXP29-5	1496.986	1433.234	1498.511	1476.244	37.255
	EXP29-6	824.090	776.435	743.128	781.218	40.693
	pos control 2	526.501	490.264	506.143	507.636	18.165
	neg control 2	14.626	14.391	14.191	14.403	0.218
	EXP30-1	580.683	595.491	600.000	592.058	10.106
	EXP30-2	661.352	556.066	548.243	588.553	63.166
	EXP30-3	434.751	529.261	542.371	502.128	58.717
	EXP30-4	655.853	658.978	632.418	649.083	14.516
	EXP30-5	316.588	319.940	309.382	315.303	5.395
	EXP30-6	477.304	509.026	517.402	501.244	21.151
	EXP31-1	550.983	551.397	518.045	540.142	19.138
	EXP31-2	645.690	598.244	641.237	628.390	26.202
	EXP31-3	531.332	544.963	508.454	528.249	18.449
	EXP31-4	141.241	146.473	147.262	144.992	3.272
	EXP31-5	665.082	613.601	686.958	655.214	37.661
	EXP31-6	810.887	835.516	852.694	833.032	21.014
	EXP32-1	640.355	620.050	626.759	629.055	10.346
	EXP32-2	543.266	339.258	513.506	465.343	110.202
	EXP32-3	487.976	414.685	495.506	466.056	44.647
	EXP32-4	506.310	485.424	540.517	510.750	27.814
	EXP32-5	466.818	448.338	462.323	459.160	9.637
	EXP32-6	533.745	513.447	503.021	516.738	15.624
U6 GUS	pos control	390.639	363.753	375.534	376.642	13.477
	neg control	5.055	4.974	4.904	4.978	0.075
	EXP33-1	438.242	470.937	462.374	457.184	16.954
	EXP33-2	389.962	368.399	369.962	376.108	12.023
	EXP33-3	505.645	478.730	488.806	491.061	13.598
	EXP33-4	460.226	493.243	497.429	483.633	20.379
	EXP33-5	473.940	455.706	472.321	467.323	10.093
	EXP33-6	467.584	450.485	439.527	452.532	14.140
	EXP34-1	431.753	434.226	441.582	435.854	5.113
	EXP34-2	259.416	254.580	268.096	260.698	6.848
	EXP34-3	218.021	220.396	212.005	216.807	4.325
	EXP34-4	167.914	205.264	172.079	181.752	20.468

	EXP34-5	708.100	712.572	733.764	718.145	13.710
	EXP34-6	561.701	576.809	560.287	566.265	9.158
	EXP36-1	338.171	353.590	333.122	341.628	10.663
	EXP36-2	14.145	14.275	14.250	14.223	0.069
	EXP36-3	43.009	43.073	43.835	43.306	0.459
	EXP36-4	415.832	418.046	422.289	418.722	3.281
	EXP36-5	343.693	317.016	326.046	328.918	13.568
	EXP36-6	319.791	323.222	318.329	320.448	2.512
	EXP37-1	499.724	502.603	510.864	504.397	5.783
	EXP37-2	543.921	559.165	576.782	559.956	16.445
	EXP37-3	250.720	239.888	239.417	243.342	6.394
	EXP37-4	646.273	605.459	602.816	618.183	24.363
	EXP37-6	492.908	481.491	N/A	487.200	N/A
	EXP38-1	671.895	539.419	712.697	641.337	90.591
	EXP38-2	86.019	94.739	91.929	90.896	4.451
	EXP38-3	162.434	130.536	137.559	143.510	16.761
	EXP38-4	478.806	486.698	455.594	473.699	16.169
	EXP38-5	450.333	425.250	413.224	429.602	18.934
	EXP38-6	467.692	460.547	492.345	473.528	16.683
	EXP45-1	4838.253	4364.044	4576.802	4593.033	237.521
of 3'shble G	EXP45-2	3503.233	3606.696	3649.191	3586.373	75.071
	EXP45-3	4405.874	4620.332	4494.552	4506.919	107.762
	EXP45-4	6258.782	6042.763	5721.519	6007.688	270.343
	EXP45-5	1268.892	1827.423	1539.838	1545.384	279.307
	EXP45-6	3630.033	4458.339	3908.512	3998.961	421.495
	EXP46-1	4022.417	4011.376	4066.918	4033.570	29.403
	EXP46-2	4031.385	4175.792	3839.521	4015.566	168.693
	EXP46-3	4901.721	4042.288	4226.489	4390.166	452.492
	EXP46-4	2477.097	2682.636	2803.478	2654.404	165.012
	EXP46-5	2213.993	2712.730	2138.787	2355.170	311.931
	EXP46-6	4276.066	3369.229	4341.223	3995.506	543.349
	EXP47-1	7305.798	6517.366	6431.784	6751.650	481.811
	EXP47-2	3937.031	4208.695	4399.123	4181.616	232.233
	EXP47-3	5533.104	5990.450	5710.605	5744.720	230.574
	EXP47-4	6408.605	5778.820	5923.331	6036.919	329.900
	EXP47-5	4438.849	3609.894	3656.416	3901.720	465.749
	EXP47-6	3884.129	3620.242	3164.818	3556.396	363.881
	EXP48-1	5898.064	5926.949	4846.468	5557.160	615.647
	EXP48-2	5851.311	5913.145	3925.370	5229.942	1130.215
	EXP48-3	4132.731	3852.566	4574.298	4186.532	363.861
	EXP48-4	4021.568	4211.738	4665.067	4299.458	330.596
	EXP48-5	3051.572	3996.598	3854.416	3634.195	509.550

	EXP48-6	4307.293	4105.563	4488.334	4300.397	191.478
	EXP49-1	3176.630	3918.550	4558.493	3884.558	691.558
	EXP49-2	3832.940	3915.040	4305.121	4017.700	252.276
	EXP49-3	2369.940	3175.696	3476.722	3007.453	572.251
	EXP49-4	4288.961	3708.234	3670.594	3889.263	346.660
	EXP49-5	3761.933	2950.055	4122.539	3611.509	600.542
	EXP49-6	4973.482	5262.135	4984.818	5073.478	163.480
	EXP50-1	3266.847	2561.816	3579.996	3136.220	521.508
	EXP50-3	4104.887	4343.128	4114.243	4187.419	134.929
	EXP50-4	4995.887	4625.002	5001.435	4874.108	215.750
	EXP50-5	6008.054	6555.705	6678.904	6414.221	357.104
	EXP50-6	5790.700	6873.330	5055.692	5906.574	914.342
	EXP50-7	10997.197	7274.589	10791.469	9687.751	2092.390