

Supplemental Table Legend for Simmons, Michalowski et al.

Table S1A. ANOVA results for the 1647 genes with significant expression change induced by drug treatment, singly and in combination. **S1B.** Connectivity measures (WGCNA) for each of the 901 genes included in the top connectivity network.

S1C. Functional enrichment of Gene Ontology (GO) categories (REVIGO, DAVID) for the five drug-related gene expression modules. **S1D.** Gene Set Enrichment Analysis (GSEA) scores for each drug-responsive gene expression module in newly diagnosed MM, treatment-refractory MM, MGUS (monoclonal gammopathy of undetermined significance), and SMM (smoldering) patients compared to healthy volunteers from (GSE6477). **S1E.** GSEA values for each gene contributing to the significant enrichment of drug-responsive genes in the patient groups compared to healthy volunteers. **S1F.** Hazard ratios and Cox regression coefficients for the 37 genes comprising the survival risk predictor gene set. **S1G.** Predicted risk classification for 414 MM patients in GSE4581. **S1H.** MYC mutation data retrieved from <http://www.cbioportal.org>, <http://cancer.sanger.ac.uk/cosmic>, and <http://www.keatslab.org>.

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
202887_s_at	DDIT4	10.3943	9.6599	8.7487	6.4378	-1.5226	-2.4339	-0.7883	-3.9564	1.23E-02	1.60E-03	1.60E-01	1.74E-04	1.43E-01	1.18E-01	6.55E-01	1.74E-02
210587_at	INHBE	9.9126	8.6358	6.5130	6.3620	-0.7139	-2.8367	0.5629	-3.5505	1.08E-01	5.76E-05	1.72E-01	5.54E-04	3.47E-01	2.41E-02	6.55E-01	2.54E-02
209773_s_at	RRM2	11.3217	9.8086	10.0647	7.9244	-1.8267	-1.5706	-0.3136	-3.3973	2.28E-04	6.67E-04	3.40E-01	5.35E-05	1.06E-02	7.71E-02	6.55E-01	8.84E-03
202068_s_at	LDLR	9.9100	8.3482	8.3718	6.7355	-1.5991	-1.5754	-0.0373	-3.1745	4.61E-06	5.21E-06	8.36E-01	1.25E-06	1.43E-03	8.97E-03	7.31E-01	3.03E-03
220651_s_at	MCM10	8.4142	7.4103	7.5678	5.7132	-1.4292	-1.2718	-0.4254	-2.7011	1.88E-03	3.84E-03	2.14E-01	3.03E-04	3.59E-02	1.77E-01	6.55E-01	2.12E-02
201710_at	MYBL2	10.2195	9.9274	8.5668	7.5842	-1.1374	-1.4979	0.1547	-2.6352	5.72E-05	6.30E-06	3.65E-01	2.83E-06	4.86E-03	8.97E-03	6.55E-01	3.13E-03
218782_s_at	ATAD2	8.3502	7.2911	6.9822	5.7815	-1.1299	-1.4388	-0.0708	-2.5687	3.47E-03	7.38E-04	8.22E-01	3.33E-04	4.99E-02	7.92E-02	7.28E-01	2.14E-02
212218_s_at	FASN	9.7071	8.1821	8.9281	7.1399	-1.8566	-0.9106	-0.1316	-2.5672	7.76E-05	4.58E-03	6.18E-01	9.62E-05	5.84E-03	1.97E-01	6.82E-01	1.26E-02
228361_at	E2F2	9.6778	8.1960	8.1872	7.1136	-1.2777	-1.2865	0.2041	-2.5642	1.29E-04	1.23E-04	3.38E-01	1.76E-05	7.53E-03	3.41E-02	6.55E-01	6.20E-03
203968_s_at	CDC6	7.9653	6.9858	7.0150	5.4012	-1.2966	-1.2675	-0.3172	-2.5641	2.17E-03	2.50E-03	3.28E-01	3.38E-04	3.88E-02	1.41E-01	6.55E-01	2.14E-02
204033_at	TRIP13	9.6055	8.2825	8.6320	7.0630	-1.4460	-1.0965	-0.1230	-2.5425	3.51E-04	2.25E-03	6.63E-01	1.69E-04	1.34E-02	1.35E-01	6.92E-01	1.54E-02
201625_s_at	INSIG1	9.9432	9.5817	8.0945	7.4061	-0.5249	-2.0122	-0.1634	-2.5371	1.01E-01	6.38E-05	6.00E-01	3.29E-04	3.37E-01	2.55E-02	6.78E-01	2.14E-02
1562256_a_at	SCARB1	11.1326	9.7919	9.5795	8.7041	-1.1080	-1.3204	0.2326	-2.4284	4.17E-03	1.41E-03	4.57E-01	4.19E-04	5.66E-02	1.12E-01	6.58E-01	2.43E-02
204126_s_at	CDC45L	8.4535	7.2039	7.2729	6.0512	-1.2356	-1.1667	0.0140	-2.4023	5.79E-06	9.28E-06	9.22E-01	1.85E-06	1.60E-03	1.05E-02	7.49E-01	3.03E-03
204695_at	CDC25A	9.4836	8.3332	8.5986	7.1249	-1.3121	-1.0466	-0.1616	-2.3587	4.36E-07	2.96E-06	1.18E-01	8.99E-08	5.16E-04	6.97E-03	6.55E-01	1.10E-03
203145_at	SPAG5	9.2752	7.6118	7.9077	6.9283	-1.3214	-1.0255	0.3420	-2.3469	7.30E-05	4.73E-04	7.09E-02	7.87E-06	5.65E-03	6.57E-02	6.55E-01	4.03E-03
227212_s_at	PHF19	10.0915	9.2131	8.9978	7.7599	-1.0582	-1.2735	-0.1798	-2.3316	3.04E-04	7.66E-05	3.65E-01	2.18E-05	1.26E-02	2.90E-02	6.55E-01	6.39E-03
212141_at	MCM4	10.4091	8.9383	9.0628	8.1028	-1.2154	-1.0910	0.2554	-2.3064	2.30E-05	5.39E-05	9.39E-02	1.97E-06	3.07E-03	2.40E-02	6.55E-01	3.03E-03
216237_s_at	MCM5	10.6760	9.3014	9.9491	8.3834	-1.4701	-0.8225	-0.0956	-2.2926	9.56E-06	7.74E-04	5.94E-01	1.34E-05	1.87E-03	7.94E-02	6.77E-01	5.32E-03
202580_x_at	FOXM1	9.2374	8.1076	8.0338	6.9529	-1.1053	-1.1792	0.0245	-2.2845	3.09E-04	1.93E-04	9.09E-01	5.20E-05	1.27E-02	4.40E-02	7.46E-01	8.84E-03
218741_at	CENPM	8.8309	7.6390	7.9815	6.6450	-1.2642	-0.9218	-0.0723	-2.1860	4.26E-06	5.43E-05	6.05E-01	2.98E-06	1.43E-03	2.30E-02	6.80E-01	3.13E-03
234973_at	SLC38A5	10.2731	9.0924	9.2609	8.1057	-1.1680	-0.9994	0.0127	-2.1674	3.40E-04	9.99E-04	9.56E-01	1.23E-04	1.32E-02	9.18E-02	7.56E-01	1.41E-02
212949_at	NCAPH	9.2442	8.0606	7.6717	7.0912	-0.8821	-1.2710	0.3015	-2.1530	1.31E-03	9.80E-05	1.21E-01	2.26E-05	3.00E-02	2.90E-02	6.55E-01	6.46E-03
223062_s_at	PSAT1	9.2815	8.7485	8.3317	7.1419	-1.2782	-1.2782	-0.3284	-2.1396	5.23E-02	8.99E-03	4.26E-01	4.81E-03	2.39E-01	2.82E-01	6.55E-01	8.50E-02
202705_at	CNBB2	10.2984	8.9043	8.9589	8.1644	-1.0943	-1.0397	0.2998	-2.1340	3.03E-03	4.11E-03	2.97E-01	5.01E-04	4.63E-02	1.84E-01	6.55E-01	2.56E-02
1563138_a_at	ANKLE1	8.2922	6.6164	6.7658	6.1910	-1.5803	-0.5209	0.0955	-2.1012	2.72E-05	3.02E-02	6.65E-01	1.13E-04	3.42E-03	4.92E-01	6.92E-01	1.37E-02
214265_at	ITGA8	9.7741	8.0442	9.2851	7.6812	-1.6669	-0.4260	0.0630	-2.0929	2.41E-03	3.14E-01	8.85E-01	8.13E-03	4.12E-02	9.67E-01	7.41E-01	1.12E-01
202107_s_at	MCM2	11.0072	9.9837	10.3046	8.9393	-1.1944	-0.8735	-0.1709	-2.0679	7.98E-05	7.73E-04	3.61E-01	3.39E-05	5.89E-03	7.94E-02	6.55E-01	7.98E-03
200832_s_at	SCD	11.5101	10.6082	10.3302	9.4528	-0.8896	-1.1676	0.0123	-2.0573	9.54E-04	1.38E-04	9.51E-01	7.44E-05	2.41E-02	3.60E-02	7.55E-01	1.12E-02
209921_at	SLC7A11	8.5595	7.6445	6.0852	6.5103	-0.2450	-1.8042	0.6701	-2.0492	5.18E-01	7.81E-04	5.90E-02	1.43E-03	6.62E-01	7.94E-02	6.55E-01	4.29E-02
209408_at	KIF2C	9.8859	8.7660	8.4149	7.8419	-0.8465	-1.1976	0.2734	-2.0440	1.60E-03	1.41E-04	1.61E-01	3.77E-05	3.32E-02	3.63E-02	6.55E-01	7.98E-03
202095_s_at	BIRC5	10.0697	9.4885	8.6996	8.0391	-0.6209	-1.4097	-0.0397	-2.0306	4.42E-02	4.54E-04	8.90E-01	8.66E-04	2.13E-01	6.47E-02	7.42E-01	3.34E-02
224753_at	CDC45	9.3184	8.6352	8.1927	7.2887	-0.7936	-1.2361	-0.1104	-2.0297	3.20E-03	1.48E-04	6.06E-01	1.16E-04	4.63E-02	3.66E-02	6.80E-01	1.38E-02
224839_s_at	GPT2	8.1566	6.8121	7.0790	6.1411	-1.1412	-0.8743	0.2033	-2.0155	6.75E-04	3.72E-03	3.98E-01	2.44E-04	2.04E-02	1.75E-01	6.55E-01	1.84E-02
205085_at	ORC1L	7.7285	6.6320	6.3532	5.7197	-0.8650	-1.1437	0.2315	-2.0088	1.31E-02	2.78E-03	4.42E-01	1.10E-03	1.10E-01	1.45E-01	6.56E-01	3.77E-02
219911_s_at	SLC04A1	9.0670	7.9643	7.5303	7.0602	-0.7864	-1.2205	0.3163	-2.0069	7.23E-03	4.58E-04	1.78E-01	1.64E-04	7.69E-02	6.47E-02	6.55E-01	1.54E-02
201397_at	PHGDH	10.8447	10.0302	8.9327	8.8571	-0.4450	-1.5426	0.3694	-1.9876	3.07E-01	4.56E-03	4.01E-01	9.70E-03	5.46E-01	1.97E-01	6.55E-01	1.24E-01
235359_at	LRRC33	9.3524	7.2871	8.6509	7.3667	-1.6747	-0.3110	0.3905	-1.9857	5.20E-05	2.15E-01	9.37E-02	1.33E-04	4.69E-03	9.36E-01	6.55E-01	1.47E-02
201250_s_at	SLC2A1	7.9616	6.6482	7.2291	5.9931	-1.2747	-0.6938	0.0387	-1.9684	3.60E-05	2.70E-03	8.34E-01	5.39E-05	3.95E-03	1.43E-01	7.31E-01	8.84E-03
235572_at	SPC24	9.0756	8.1473	8.1397	7.1151	-0.9764	-0.9841	-0.0482	-1.9605	7.03E-06	6.59E-06	6.76E-01	1.59E-06	1.71E-03	8.97E-03	6.95E-01	3.03E-03
226080_at	RFT1	9.5679	8.2129	8.6404	7.6341	-1.1807	-0.7531	0.1744	-1.9338	2.37E-06	8.83E-05	1.26E-01	9.17E-07	1.14E-03	2.90E-02	6.55E-01	2.82E-03
223307_at	CDC43	9.7449	8.9208	8.9164	7.8355	-0.9524	-0.9569	-0.1284	-1.9094	9.61E-05	9.27E-05	4.03E-01	1.48E-05	6.58E-03	2.90E-02	6.55E-01	5.50E-03
204603_at	EXO1	7.7608	7.1934	6.8235	5.8592	-0.7658	-1.1358	-0.1985	-1.9016	5.16E-02	8.84E-03	5.92E-01	5.35E-03	2.38E-01	2.80E-01	7.77E-01	9.00E-02
200827_at	PIOD1	10.3873	9.8762	9.1880	8.4943	-0.6024	-1.2906	-0.0914	-1.8930	2.60E-02	2.94E-04	7.11E-01	4.95E-04	1.61E-01	5.03E-02	7.01E-01	2.56E-02
218755_at	KLF20A	8.2192	6.9622	7.5023	6.3274	-1.2159	-0.6759	0.0411	-1.8918	4.32E-03	6.48E-02	9.07E-01	4.37E-03	5.78E-02	6.46E-01	7.45E-01	8.06E-02
208079_s_at	STK6	9.5062	8.3380	8.1955	7.6180	-0.8729	-1.0154	0.2954	-1.8883	2.00E-03	7.40E-04	1.56E-01	1.03E-04	3.70E-02	7.82E-02	6.55E-01	1.29E-02
204962_s_at	CENPA	9.2487	8.0598	8.2274	7.3607	-1.0279	-0.8602	0.1611	-1.8881	3.29E-03	8.98E-03	5.66E-01	1.10E-03	4.85E-02	2.92E-01	6.71E-01	3.77E-02
227342_s_at	MYEOV	9.5088	7.7660	9.0770	7.6250	-1.5974	-0.2864	0.1454	-1.8838	8.77E-04	4.05E-01	6.83E-01	4.70E-03	2.32E-02	9.67E-01	6.96E-01	8.41E-02
219306_at	KIF15	8.0794	7.0785	7.3495	6.2005	-1.0750	-0.8040	-0.0740	-1.8789	3.12E-03	1.52E-02	8.01E-01	1.59E-03	4.69E-02	3.47E-01	7.24E-01	4.52E-02
210589_s_at	GBA	9.7845	9.0888	8.5436	7.9251	-0.6570	-1.2023	0.0386	-1.8595	1.34E-02	3.27E-04	6.89E-01	4.05E-04	1.11E-01	5.30E-02	7.38E-01	2.41E-02
38158_at	ESPL1	10.0854	8.9261	8.8630	8.2266	-0.8979	-0.9610	0.2615	-1.8588	2.88E-03	1.89E-03	2.61E-01	2.96E-04	4.54E-02	1.24E-01	6.55E-01	2.11E-02
206729_at	TNFRSF8	8.8273	8.0777	7.3018	7.0221	-0.5146	-1.2906	0.2350	-1.8052	1.19E-01	1.92E-03	4.64E-01	3.09E-03	3.62E-01	1.25E-01	6.58E-01	6.61E-02
219148_at	PBK	8.1756	7.2779	7.6053	6.3724	-1.0654	-0.7379	-0.1676	-1.8032	8.18E-03	4.42E-02	6.25E-01	4.74E-03	8.31E-02	5.66E-01	6.83E-01	8.44E-02
205167_s_at	CDC25C	7.7805	6.7261	6.5853	5.9835	-0.8281	-0.9689	0.2263	-1.7970	3.11E-04	9.70E-05	1.27E-01	1.19E-05	1.21E-02	2.90E-02	6.55E-01	4.89E-03
203432_at	Hs.655104	9.4810	8.4153	9.1696	7.6864	-1.2745	-0.5202	-0.2088	-1.7946	8.88E-03	2.08E-01	6.16E-01	1.31E-02	8.80E-02	9.31E-01	6.82E-01	1.46E-01
212621_at	TMEM194A	9.1879	8.1277	8.5558	7.4034												

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
236122_at	Hs.658224	8.1942	7.3668	7.7709	6.6701	-0.9791	-0.5450	-0.1217	-1.5241	3.45E-03	5.64E-02	6.53E-01	3.27E-03	4.97E-02	6.13E-01	6.90E-01	6.77E-02
205024_s_at	RD51	8.3049	7.6847	7.3805	6.7857	-0.6075	-0.9117	0.0127	-1.5192	1.80E-03	1.04E-04	9.34E-01	8.49E-05	3.53E-02	2.96E-02	7.51E-01	1.18E-02
223274_at	TCF19	8.1910	7.7493	7.0230	6.6720	-0.3964	-1.1227	0.0454	-1.5190	1.32E-02	1.11E-05	7.47E-01	4.70E-05	1.10E-01	1.10E-02	7.08E-01	8.36E-03
203696_s_at	RFC2	9.1418	8.4516	8.2874	7.6239	-0.6768	-0.8411	0.0133	-1.5179	6.83E-03	1.89E-03	9.50E-01	8.03E-04	7.44E-02	1.41E-01	7.54E-01	3.20E-02
201791_s_at	DHCR7	10.1857	9.5799	8.7349	8.6696	-0.3355	-1.1805	0.2702	-1.5161	1.26E-01	2.21E-04	1.89E-01	4.58E-04	3.71E-01	4.41E-02	6.55E-01	2.48E-02
209083_at	CORO1A	8.2179	7.9203	7.1032	6.7111	-0.3448	-1.1620	-0.0472	-1.5068	9.12E-02	1.30E-04	8.13E-01	5.55E-04	3.22E-01	3.53E-02	7.26E-01	2.68E-02
204825_at	MELK	9.9040	9.4297	9.2285	8.4006	-0.6512	-0.8523	-0.1768	-1.5035	3.38E-02	9.61E-03	5.29E-01	4.21E-03	1.88E-01	2.94E-01	6.62E-01	7.87E-02
200862_at	DHCR24	8.6221	7.8891	7.4437	7.1193	-0.5287	-0.9741	0.2043	-1.5027	4.06E-02	1.71E-03	3.87E-01	1.43E-03	2.07E-01	1.22E-01	6.55E-01	4.29E-02
204123_at	LIG3	8.1081	6.9365	7.3816	6.6056	-0.9738	-0.5287	-0.1978	-1.5025	2.89E-03	5.55E-02	4.43E-01	2.51E-03	4.54E-02	6.09E-01	6.56E-01	5.86E-02
208002_s_at	ACOT7	8.9635	8.7423	8.0359	7.4625	-0.3973	-1.1037	-0.1761	-1.5010	8.91E-02	4.98E-04	4.31E-01	1.05E-03	3.18E-01	6.70E-02	6.55E-01	3.66E-02
218009_s_at	PRC1	9.8057	9.2411	8.5471	8.3154	-0.3981	-1.0921	0.1665	-1.4903	1.19E-02	1.22E-05	2.06E-01	2.35E-05	1.04E-01	1.10E-02	6.55E-01	6.58E-03
218156_s_at	TSR1	8.5982	7.5305	8.5122	7.1092	-1.2354	-0.2536	-0.1677	-1.4890	1.91E-03	3.97E-01	5.88E-01	7.53E-03	3.60E-02	9.67E-01	6.77E-01	1.08E-01
239413_at	CEP152	7.4994	6.2737	7.1459	6.0118	-1.1799	-0.3077	0.0458	-1.4876	4.91E-04	2.00E-01	8.51E-01	2.09E-03	1.73E-02	9.25E-01	7.35E-01	5.30E-02
223172_s_at	MTP18	9.6253	8.9490	8.6154	8.1447	-0.5735	-0.9071	0.1028	-1.4806	2.30E-02	1.91E-03	6.52E-01	1.40E-03	1.50E-01	1.25E-01	6.90E-01	4.27E-02
234672_s_at	TMEM48	10.2132	9.5596	9.2640	8.7368	-0.5904	-0.8860	0.0632	-1.4764	6.32E-03	4.86E-04	7.28E-01	3.42E-04	7.16E-02	6.61E-02	7.04E-01	2.14E-02
236077_at	GANC	6.9627	5.9159	6.5934	5.4876	-1.0763	-0.3988	-0.0296	-1.4751	1.26E-03	1.21E-01	9.08E-01	2.91E-03	2.90E-02	8.11E-01	7.45E-01	6.43E-02
215443_at	TSHR	7.1092	5.9466	7.3579	5.6343	-1.4431	-0.3018	-0.1285	-1.4748	9.62E-06	8.49E-01	8.22E-02	7.73E-05	1.87E-03	9.67E-01	6.55E-01	1.14E-02
205436_s_at	H2AF3	9.6644	8.7316	9.1398	8.1897	-0.9415	-0.5333	-0.0087	-1.4748	1.32E-05	9.32E-04	9.43E-01	1.99E-05	2.32E-03	8.74E-02	7.53E-01	6.33E-03
207828_s_at	CENPF	9.2490	8.3418	7.9133	7.7825	-0.5190	-0.9475	0.3882	-1.4666	7.52E-02	5.15E-03	1.40E-01	2.36E-03	2.89E-01	2.11E-01	6.55E-01	5.64E-02
201587_s_at	IRAK1	11.6565	10.2439	11.2077	10.1920	-1.2141	-0.2504	0.1984	-1.4645	7.12E-05	1.89E-01	2.85E-01	3.31E-04	5.59E-03	9.16E-01	6.55E-01	2.14E-02
207038_at	SLC19A6	7.0686	5.7343	6.1306	5.6097	-0.9276	-0.5313	0.4067	-1.4589	7.45E-03	8.07E-02	1.39E-01	3.15E-03	7.81E-02	9.05E-01	6.55E-01	6.61E-02
201275_at	FDP5	10.7663	9.8392	9.7633	9.3105	-0.6900	-0.7658	0.2371	-1.4558	2.54E-03	1.31E-03	1.67E-01	1.69E-04	4.24E-02	1.08E-01	6.55E-01	1.54E-02
208056_s_at	CBFA2T3	7.1183	5.3459	7.7253	5.6643	-1.9167	-0.4626	-0.1443	-1.4541	5.06E-07	1.48E-02	3.79E-01	1.64E-04	5.16E-04	3.45E-01	6.55E-01	1.54E-02
205588_s_at	FGFR1OP	6.2672	5.4250	6.2041	4.8132	-1.1165	-0.3374	-0.2744	-1.4539	1.05E-03	1.85E-01	2.76E-01	2.07E-03	2.58E-02	9.15E-01	6.55E-01	5.29E-02
212789_at	NCPAD3	9.4737	8.6320	8.8321	8.0226	-0.8256	-0.6255	0.0162	-1.4511	2.86E-04	1.89E-03	9.18E-01	1.51E-04	1.22E-02	1.24E-01	7.48E-01	1.53E-02
209777_s_at	SLC19A1	9.0539	7.9009	8.1910	7.6086	-0.8677	-0.5776	0.2853	-1.4453	6.16E-04	7.66E-03	9.04E-02	1.25E-04	1.94E-02	2.59E-01	6.55E-01	1.42E-02
205519_at	WDR76	6.9216	6.0934	6.0031	5.4777	-0.6768	-0.7671	0.1514	-1.4439	2.00E-03	8.85E-04	3.67E-01	1.98E-04	3.70E-02	8.48E-02	6.55E-01	1.63E-02
215071_s_at	HIST1H2AC	7.3491	6.0703	7.7985	5.9054	-1.5859	-0.1423	-0.3072	-1.4436	1.84E-03	7.05E-01	4.31E-01	2.49E-02	3.56E-02	9.67E-01	6.55E-01	2.03E-01
204267_x_at	PKMYT1	9.2544	8.7007	8.3004	7.8230	-0.5156	-0.9159	0.0381	-1.4314	2.75E-02	1.17E-03	8.59E-01	1.24E-03	1.67E-01	1.00E-01	7.36E-01	4.04E-02
208926_at	NEU1	10.3826	10.1272	9.8650	9.9532	-0.1336	-1.2958	0.1218	-1.4294	3.09E-01	2.45E-06	3.55E-01	3.84E-05	5.48E-01	6.97E-03	6.55E-01	7.98E-03
218529_at	CD320	11.7418	11.8030	10.5409	10.3162	-0.0817	-1.3438	-0.1430	-1.4256	6.43E-01	2.51E-05	4.35E-01	4.06E-04	7.04E-01	1.90E-02	6.55E-01	2.41E-02
214430_at	GLA	11.3273	10.9436	10.2592	9.9182	-0.3623	-1.0468	0.0213	-1.4091	1.23E-01	8.32E-04	9.27E-01	2.25E-03	3.67E-01	8.08E-02	7.51E-01	5.54E-02
212124_at	ZMIZ1	8.4265	7.1609	8.6395	7.0183	-1.4434	-0.0352	-0.1778	-1.4082	1.34E-03	9.14E-01	6.03E-01	1.64E-02	3.03E-02	9.67E-01	6.80E-01	1.64E-01
219000_s_at	DSSC1	8.7099	8.6476	7.9472	7.3020	-0.3537	-1.0541	-0.2915	-1.4079	2.29E-01	3.94E-03	3.15E-01	6.39E-03	4.86E-01	1.80E-01	6.55E-01	9.98E-02
202954_at	UBE2C	9.9553	9.3756	9.1561	8.5502	-0.5928	-0.8123	-0.0131	-1.4051	4.49E-03	6.02E-04	9.39E-01	3.45E-04	5.90E-02	7.31E-02	7.53E-01	2.14E-02
204852_s_at	PTPN7	7.7032	6.3092	7.0735	6.3000	-1.0837	-0.3195	0.3102	-1.4032	5.53E-04	1.59E-01	1.43E-01	8.33E-04	1.85E-02	8.82E-01	6.55E-01	3.25E-02
221795_at	NTRK2	8.3885	7.3339	8.2915	6.9924	-1.1768	-0.2192	-0.1222	-1.3961	1.92E-04	2.89E-01	5.62E-01	1.21E-03	9.84E-03	9.67E-01	6.70E-01	4.01E-02
222838_at	SLAMF7	9.4944	8.2932	10.2787	8.0999	-1.6900	0.2955	-0.4888	-1.3946	6.04E-03	5.48E-01	3.30E-01	6.99E-02	6.97E-02	9.67E-01	6.55E-01	3.35E-01
219324_at	NOL2	7.9219	6.9009	7.8643	6.5287	-1.1782	-0.2149	-0.1573	-1.3931	2.74E-04	3.21E-01	4.75E-01	1.55E-03	1.19E-02	9.67E-01	6.58E-01	4.52E-02
218774_at	DCPS	8.9650	8.0970	8.6776	7.5859	-0.9798	-0.3992	-0.1119	-1.3790	6.08E-03	1.80E-01	7.09E-01	9.71E-03	7.00E-02	9.15E-01	7.01E-01	1.24E-01
221247_s_at	WBSCR16	9.3266	8.2582	8.6897	7.9480	-0.9051	-0.4735	0.1633	-1.3786	8.20E-03	1.11E-01	5.74E-01	8.09E-03	8.32E-02	7.88E-01	6.73E-01	1.12E-01
227165_at	SKA3	7.8976	7.0898	6.9390	6.5198	-0.6135	-0.7643	0.1943	-1.3778	6.83E-03	1.86E-03	2.95E-01	4.99E-04	7.44E-02	1.24E-01	6.55E-01	2.56E-02
235666_at	Hs.592472	9.9143	8.7670	10.2478	8.5470	-1.4241	-0.0567	-0.1267	-1.3674	1.83E-03	8.66E-01	4.30E-01	1.97E-02	3.56E-02	9.67E-01	6.55E-01	1.80E-01
202934_at	HK2	8.7311	7.9102	8.6539	7.3754	-1.0497	-0.3060	-0.2288	-1.3557	7.35E-05	7.64E-02	1.42E-01	1.35E-04	5.65E-03	6.88E-01	6.55E-01	1.47E-02
218459_at	TOR3A	9.8938	9.0257	9.0382	8.5392	-0.6836	-0.6711	0.1845	-1.3546	1.77E-04	2.03E-04	9.97E-02	1.10E-05	9.52E-03	4.35E-02	6.55E-01	4.66E-03
229332_at	HPDL	7.1725	5.6839	6.9806	5.8194	-1.3249	-0.0282	0.1637	-1.3531	4.29E-06	8.39E-01	2.48E-01	8.56E-05	1.43E-03	9.67E-01	6.55E-01	1.18E-02
218355_at	KIF4A	8.8407	8.7113	7.8111	7.4890	-0.2257	-1.1259	-0.0964	-1.3517	2.36E-01	1.35E-04	6.17E-01	8.68E-04	4.92E-01	3.60E-02	6.82E-01	3.34E-02
202613_at	CTPS	9.1214	8.1020	9.0587	7.7714	-1.1534	-0.1966	-0.1340	-1.3500	4.36E-03	5.36E-01	6.87E-01	1.78E-02	5.81E-02	9.67E-01	6.97E-01	1.71E-01
211725_s_at	BID	9.0202	8.0450	8.8287	7.6765	-1.0637	-0.2800	-0.0886	-1.3437	3.96E-04	1.84E-01	6.76E-01	1.63E-03	1.48E-02	9.15E-01	6.95E-01	4.80E-02
209279_s_at	NSDHL	8.6489	7.5980	7.6613	7.3108	-0.7007	-0.6374	0.3502	-1.3381	5.87E-03	9.80E-03	6.82E-02	4.58E-04	6.86E-02	2.97E-01	6.55E-01	2.48E-02
1552272_a_at	PRR22	7.5863	6.0898	6.9965	6.2561	-1.1184	-0.2117	0.3781	-1.3301	5.46E-03	5.09E-01	2.40E-01	1.35E-02	6.56E-02	9.67E-01	6.55E-01	1.48E-01
208759_at	NCSTN	9.0730	8.2860	8.9337	7.7448	-0.9880	-0.3402	-0.2010	-1.3282	1.57E-03	1.59E-01	3.95E-01	3.00E-03	3.03E-02	8.82E-01	6.55E-01	6.50E-02
228765_at	GTF2IRD2	7.3485	6.6164	7.9902	6.0252	-1.3485	-0.0253	-0.6165	-1.3233	5.42E-03	9.47E-01	9.64E-02	2.12E-02	6.55E-02	9.67E-01	6.55E-01	1.87E-01
204775_at	CHAF1B	7.2590	6.5423	6.6409	5.9371	-0.7103	-0.6116	0.0064	-1.3219	4.36E-03	9.94E-03	9.75E-01	1.57E-03	5.81E-02	2.99E-01	7.60E-01	4.52E-02
236546_at	Hs.659967	6.8226	5.9508	6.1739	5.5098	-0.7679	-0.5448	0.1039	-1.3128	7.72E-04	7.14E-03	5.41E-01	4.54E-04	2.32E-02	2.51E-01	6.66E-01	2.48E-02
225531_at	CABLES1	9.9989</															

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
212871_at	MAPKAPK5	8.3112	7.2783	7.7839	7.1313	-0.8427	-0.3372	0.1902	-1.1799	3.49E-03	1.51E-01	4.08E-01	4.99E-03	5.00E-02	8.72E-01	6.55E-01	8.70E-02
223120_at	FUCA2	10.4740	10.2458	10.1472	9.3058	-0.5348	-0.6334	-0.3067	-1.1682	1.26E-02	5.07E-03	7.02E-02	4.96E-04	1.07E-01	2.08E-01	6.55E-01	2.56E-02
227804_at	TLCD1	7.5966	6.8081	7.4389	6.4316	-0.8994	-0.2687	-0.1079	-1.1681	3.38E-03	2.69E-01	6.63E-01	8.59E-03	4.92E-02	9.67E-01	6.92E-01	1.16E-01
235875_at	Hs.323878	6.4330	6.1117	5.4674	5.2688	-0.2600	-0.9042	0.0614	-1.1642	3.41E-01	6.74E-03	8.28E-01	1.68E-02	5.71E-01	2.45E-01	7.30E-01	1.65E-01
201970_s_at	NASP	10.3529	9.3976	9.9263	9.1891	-0.8462	-0.3175	0.1090	-1.1638	1.34E-03	1.20E-01	5.86E-01	2.70E-03	3.03E-02	8.09E-01	6.77E-01	6.13E-02
209251_x_at	TUBA1C	13.6459	12.9436	12.8679	12.4843	-0.5430	-0.6186	0.1593	-1.1616	1.77E-03	7.48E-04	2.17E-01	1.23E-04	3.50E-02	7.94E-02	6.55E-01	1.41E-02
1553015_a_at	RECQL4	8.8975	8.1720	8.0465	7.7388	-0.5166	-0.6421	0.2089	-1.1587	2.04E-02	6.79E-03	2.80E-01	1.90E-03	1.40E-01	2.46E-01	6.55E-01	5.03E-02
218619_s_at	SUV39H1	7.9011	7.2954	7.2672	6.7429	-0.5649	-0.5932	0.0407	-1.1582	4.28E-03	3.20E-03	8.02E-01	8.20E-04	5.76E-02	1.57E-01	7.24E-01	3.23E-02
203046_s_at	TIMELESS	9.3151	8.8354	8.4960	8.1576	-0.4091	-0.7484	0.0707	-1.1575	8.62E-03	1.76E-04	5.94E-01	2.04E-04	8.60E-02	4.13E-02	6.77E-01	1.66E-02
219412_at	RAB38	7.0908	6.0223	6.4780	5.9334	-0.8065	-0.3509	0.2619	-1.1574	9.38E-03	1.86E-01	3.12E-01	9.82E-03	9.04E-02	9.15E-01	6.55E-01	1.24E-01
205512_s_at	AIFM1	9.9149	8.8883	9.2451	8.7583	-0.7567	-0.3999	0.2699	-1.1566	1.21E-03	3.65E-02	9.81E-02	4.69E-04	2.86E-02	5.33E-01	6.55E-01	2.51E-02
226833_at	CVB5D1	7.5866	6.6300	7.6646	6.4394	-1.0909	-0.0563	-0.1343	-1.1472	8.23E-04	8.05E-01	5.76E-01	7.81E-03	2.29E-02	9.67E-01	6.73E-01	1.10E-01
204826_at	CCNF	9.1545	8.5300	8.0878	8.0095	-0.3514	-0.7935	0.2731	-1.1449	8.89E-02	1.97E-03	1.47E-01	1.42E-03	3.18E-01	1.25E-01	6.55E-01	4.29E-02
225503_at	DHRX	8.7647	7.7973	8.0550	7.6201	-0.7011	-0.4435	0.2663	-1.1446	6.04E-03	5.04E-02	1.90E-01	2.44E-03	6.97E-02	5.93E-01	6.55E-01	5.75E-02
200895_s_at	FKBP4	9.1635	8.0175	8.4399	8.0199	-0.7830	-0.3606	0.3630	-1.1436	6.18E-03	1.36E-01	1.00E-01	3.25E-03	7.07E-02	8.45E-01	6.55E-01	6.76E-02
223308_s_at	WDR5	7.9443	7.1708	7.4688	6.8015	-0.7204	-0.4224	0.0531	-1.1428	3.48E-03	4.69E-02	7.91E-01	3.12E-03	5.00E-02	5.76E-01	7.21E-01	6.61E-02
202780_at	OXC1T	9.2016	8.3441	8.6619	8.0625	-0.7285	-0.4107	0.1290	-1.1391	6.55E-04	1.85E-02	3.99E-01	5.33E-04	2.02E-02	3.83E-01	6.55E-01	2.63E-02
224706_at	KIAA2013	9.9753	9.3447	9.2733	8.8453	-0.5293	-0.6007	0.1013	-1.1300	6.91E-03	3.35E-03	5.37E-01	9.49E-04	7.51E-02	1.63E-01	6.64E-01	3.48E-02
219428_s_at	PXMP4	8.3837	8.0892	7.7572	7.2609	-0.3954	-0.7274	-0.1009	-1.1229	3.40E-02	1.30E-03	5.56E-01	1.29E-03	1.89E-01	1.08E-01	6.69E-01	4.11E-02
213334_x_at	HAUS7	8.6705	8.0315	8.4110	7.5482	-0.7508	-0.3714	-0.1119	-1.1222	1.39E-04	1.23E-02	3.78E-01	1.66E-04	7.93E-03	3.21E-01	6.55E-01	1.54E-02
203679_at	TMED1	9.7543	9.6393	8.8860	8.6323	-0.1844	-0.9377	-0.0694	-1.1221	1.07E-01	7.74E-06	3.35E-01	7.22E-05	3.45E-01	9.57E-03	6.63E-01	1.09E-02
201487_at	CTSC	11.7563	11.2507	11.1599	10.6343	-0.5156	-0.6064	-0.0099	-1.1220	1.20E-02	4.99E-03	9.56E-01	1.87E-03	1.04E-01	2.06E-01	7.56E-01	4.99E-02
203564_at	FANCG	8.8028	8.2442	8.0266	7.6848	-0.4502	-0.6678	0.1084	-1.1180	8.05E-03	7.17E-04	4.47E-01	3.94E-04	8.21E-02	7.92E-02	6.56E-01	2.37E-02
214442_s_at	PIAS2	7.6207	6.7668	6.8678	6.5071	-0.6703	-0.5064	0.2466	-1.1136	6.98E-03	1.78E-02	1.70E-01	1.33E-03	7.53E-02	3.75E-01	6.55E-01	4.14E-02
209468_at	LRP5	8.1460	7.7193	7.2696	7.0387	-0.3288	-0.7784	0.0979	-1.1072	9.53E-02	1.69E-03	6.09E-01	2.78E-03	3.28E-01	1.21E-01	6.80E-01	6.20E-02
206452_x_at	PPP2R4	8.7065	7.8390	8.2525	7.6020	-0.5290	-0.3455	0.1085	-1.1045	6.65E-04	4.21E-02	4.90E-01	2.18E-04	1.87E-02	5.58E-01	6.55E-01	3.23E-02
223277_at	C3orf75	9.3327	8.5681	8.6746	8.2316	-0.6038	-0.4973	0.1609	-1.1011	1.52E-03	4.97E-03	2.54E-01	3.45E-04	3.24E-02	2.06E-01	6.55E-01	2.14E-02
208795_s_at	MCM7	11.2315	10.2869	10.6875	10.1306	-0.7507	-0.3502	0.1939	-1.1009	3.34E-03	9.96E-02	3.38E-01	3.49E-03	4.96E-02	7.59E-01	6.55E-01	7.00E-02
226610_at	CENPV	7.0764	6.3397	6.9757	5.9755	-0.8685	-0.2324	-0.1318	-1.1009	5.73E-03	3.60E-01	6.14E-01	1.48E-02	6.79E-02	9.67E-01	6.82E-01	1.55E-01
204066_s_at	AGAP1	8.2185	7.2540	7.6858	7.1177	-0.7664	-0.3345	0.1982	-1.1009	2.22E-03	9.81E-02	3.01E-01	2.46E-03	3.92E-02	7.55E-01	6.55E-01	5.76E-02
201770_at	SNRPA	10.1754	9.6130	9.8661	9.0763	-0.6761	-0.4230	-0.1137	-1.0990	2.97E-03	3.27E-02	5.30E-01	2.04E-03	4.62E-02	5.08E-01	6.62E-01	5.26E-02
228648_at	LRG1	7.8183	7.3914	6.9955	6.7229	-0.3498	-0.7457	0.0771	-1.0954	2.06E-02	2.08E-04	5.68E-01	3.30E-04	1.41E-01	4.35E-02	6.71E-01	2.14E-02
212295_s_at	SLC7A1	11.2168	10.7185	10.4383	10.1236	-0.4065	-0.6867	0.0918	-1.0932	6.57E-03	2.19E-04	4.60E-01	1.81E-04	7.30E-02	4.41E-02	6.58E-01	1.55E-02
206435_at	BAGALNT1	7.3973	6.8864	6.7758	6.3047	-0.4910	-0.6016	0.1999	-1.0926	4.39E-03	1.25E-03	8.89E-01	5.06E-04	5.83E-02	1.05E-01	7.41E-01	2.57E-02
1568596_a_at	TROAP	8.5009	8.0784	7.4630	7.4093	-0.2381	-0.8535	0.1844	-1.0917	3.01E-01	3.44E-03	4.28E-01	8.12E-03	5.41E-01	1.67E-01	6.55E-01	1.12E-01
208969_at	NDUFA9	11.1670	10.5531	10.4666	10.0768	-0.5019	-0.5884	0.1121	-1.0903	4.92E-03	1.88E-03	4.41E-01	5.25E-04	6.21E-02	1.24E-01	6.56E-01	2.62E-02
226760_at	MBTPS2	9.8290	8.9461	9.2793	8.7408	-0.7108	-0.3775	0.1722	-1.0883	1.83E-04	1.03E-02	1.49E-01	9.89E-05	9.62E-03	3.00E-01	6.55E-01	1.28E-02
225083_at	GTF3C6	8.5181	7.6374	9.2752	7.4301	-1.3629	0.2749	-0.4821	-1.0880	3.95E-03	4.58E-01	1.89E-01	5.10E-02	5.45E-02	6.07E-01	6.55E-01	2.90E-01
202417_at	KEAP1	9.7899	8.7799	9.4211	8.7066	-0.8622	-0.2210	0.1478	-1.0833	2.90E-05	7.87E-02	2.01E-01	9.07E-05	3.56E-03	6.96E-01	6.55E-01	1.51E-02
217511_at	KAZALD1	7.2373	6.3107	7.1773	6.1552	-0.9744	-0.1077	-0.0478	-1.0821	9.93E-06	3.54E-01	6.90E-01	1.67E-04	1.89E-03	9.67E-01	6.97E-01	1.54E-02
219556_at	C16orf59	7.9068	7.4367	7.4215	6.8261	-0.5327	-0.5479	-0.0626	-1.0807	1.19E-03	9.86E-04	6.14E-01	2.08E-04	2.83E-02	9.13E-02	6.82E-01	1.66E-02
200957_s_at	SSRP1	10.0334	9.0815	9.4165	8.9533	-0.7076	-0.3728	0.2444	-1.0802	2.39E-03	5.54E-02	1.59E-01	1.28E-03	4.11E-02	6.09E-01	6.55E-01	4.11E-02
218903_s_at	OFBC2B	6.6747	5.8513	6.3610	5.5955	-0.7945	-0.2848	0.0289	-1.0793	6.77E-03	2.42E-01	9.07E-01	1.32E-02	7.42E-02	9.53E-01	7.45E-01	1.46E-01
213523_at	CCNE1	9.1231	8.2439	8.7351	8.0443	-0.7850	-0.2938	0.0942	-1.0788	5.21E-03	2.04E-01	6.86E-01	9.46E-03	6.44E-02	9.30E-01	6.97E-01	1.22E-01
208668_x_at	HMGN2	12.0509	11.2699	12.1316	10.9733	-0.9696	-0.1079	-0.1887	-1.0775	5.57E-04	5.76E-01	3.40E-01	3.43E-03	1.85E-02	9.67E-01	6.55E-01	6.94E-02
223759_s_at	GS2G	6.5455	5.9477	5.5205	5.4701	-0.3241	-0.7513	0.2737	-1.0754	1.50E-01	5.33E-03	2.00E-01	4.65E-03	4.04E-01	2.15E-01	6.55E-01	8.37E-02
212801_at	CIT	8.2790	7.7151	7.3929	7.2078	-0.3745	-0.6967	0.1894	-1.0713	6.14E-03	9.72E-05	6.68E-02	7.05E-02	7.05E-02	2.90E-02	6.55E-01	7.45E-03
225024_at	RPRD1B	7.4297	6.5384	7.1466	6.3604	-0.8388	-0.2305	0.0526	-1.0693	6.20E-03	3.55E-01	8.39E-01	1.64E-02	7.09E-02	9.67E-01	7.32E-01	1.64E-01
222622_at	PGP	10.6986	9.7686	10.2369	9.6339	-0.7665	-0.2982	0.1635	-1.0647	3.01E-03	1.52E-01	4.23E-01	4.73E-03	4.63E-02	8.74E-01	6.55E-01	8.36E-02
202528_at	GALE	7.9088	7.4239	7.2653	6.8447	-0.4527	-0.6114	0.0321	-1.0641	3.56E-03	5.02E-04	7.99E-01	6.26E-04	5.05E-02	6.74E-02	7.23E-01	2.02E-02
209680_s_at	KIFC1	9.0786	8.6424	7.9250	8.0151	-0.1731	-0.8905	0.2631	-1.0635	3.06E-01	3.39E-04	9.92E-02	7.02E-04	5.45E-01	5.36E-02	6.55E-01	2.96E-02
218159_at	DRGK1	9.4542	8.8074	8.8066	8.3924	-0.5305	-0.5313	0.1163	-1.0618	2.70E-03	2.68E-03	4.01E-01	4.42E-04	4.38E-02	1.43E-01	6.55E-01	2.47E-02
224756_s_at	BAT5	8.9027	8.1432	8.4087	7.8439	-0.6621	-0.3966	0.0974	-1.0587	4.47E-05	1.76E-03	3.09E-01	3.18E-05	4.44E-03	1.24E-01	6.55E-01	7.81E-03
201037_at	PFKP	9.7511	9.0133	8.8000	8.6926	-0.4226	-0.6360	0.3152	-1.0586	5.18E-02	8.24E-03	9.44E-02	1.99E-03	2.38E-01	2.69E-01	6.55E-01	5.18E-02
205090_s_at	NAGPA	8.5133	8.0442	7.8238	7.4552	-0.4188	-0.6393	0.0502	-1.0581	2.61E-02	2.84E-03	7.70E-01	1.99E-03	1.61E-01	1.46E-01	7.16E-01	5.18E-02
216026_s_at	POLE	8.3345	7.5879	7.8063</													

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
207641_at	TNFRSF13B	9.7854	9.3904	8.7080	8.8299	-1.1366	-0.8189	0.2585	-0.9554	5.56E-01	5.22E-03	2.72E-01	1.50E-02	6.76E-01	2.11E-01	6.55E-01	1.56E-01
202982_s_at	ACOT1	6.4853	5.3833	6.5543	5.5331	-1.0616	0.1094	0.0404	-0.9522	4.45E-05	4.71E-01	7.99E-01	2.33E-03	4.44E-03	9.67E-01	7.23E-01	5.60E-02
218375_at	NUDT9	9.5215	9.0160	8.9303	8.5696	-0.4331	-0.5188	0.0724	-0.9519	2.11E-02	8.67E-03	6.68E-01	3.28E-03	1.43E-01	2.78E-01	6.93E-01	6.77E-02
200793_s_at	ACO2	10.3583	9.5400	9.8221	9.4085	-0.6159	-0.3338	0.2023	-0.9497	2.42E-03	5.02E-02	1.85E-01	1.33E-03	4.12E-02	5.93E-01	6.55E-01	4.14E-02
223306_at	EBPL	11.4107	10.6683	11.3793	10.4656	-0.8281	-0.1170	-0.0856	-0.9451	2.17E-03	5.64E-01	6.87E-01	1.15E-02	3.89E-02	9.67E-01	6.97E-01	1.36E-01
212083_at	TEX261	9.9522	9.3811	9.3220	9.0077	-0.4427	-0.5017	0.1284	-0.9444	4.03E-03	1.87E-03	2.92E-01	3.76E-04	5.50E-02	1.24E-01	6.55E-01	2.29E-02
218143_s_at	SCAMP2	10.2970	10.0909	9.5617	9.3530	-0.2074	-0.7366	-0.0013	-0.9440	3.37E-01	5.73E-03	9.95E-01	1.52E-02	5.68E-01	2.27E-01	7.64E-01	1.57E-01
225377_at	C9orf86	9.1189	7.9778	8.6982	8.1754	-0.8219	-0.1216	0.2992	-0.9435	4.47E-03	5.91E-01	1.85E-01	1.19E-02	5.89E-02	9.67E-01	6.55E-01	1.39E-01
213302_at	PFAS	9.0041	8.0781	9.2045	8.0616	-1.0344	0.0919	-0.1084	-0.9425	2.46E-05	5.01E-01	4.41E-01	1.07E-03	3.16E-03	9.67E-01	6.55E-01	3.71E-02
225342_at	AK3L1	7.3346	6.6176	7.3319	6.3923	-0.8283	-0.1140	-0.1113	-0.9423	7.13E-03	6.45E-01	6.69E-01	2.89E-02	7.63E-02	9.67E-01	6.94E-01	2.18E-01
223296_at	SLC25A33	8.6554	7.9728	8.5942	7.7165	-0.7801	-0.1588	-0.0975	-0.9389	9.05E-03	5.17E-01	7.04E-01	2.78E-02	8.90E-02	9.67E-01	6.99E-01	2.14E-01
223212_at	ZDHHC16	9.7560	9.4415	9.2083	8.8173	-0.3527	-0.5859	-0.0382	-0.9387	1.15E-02	5.25E-04	7.53E-01	4.82E-04	1.02E-01	6.75E-02	7.10E-01	2.55E-02
225323_at	CC2D1B	7.1561	6.4136	6.7961	6.2180	-0.6603	-0.2778	0.0823	-0.9381	3.40E-04	4.33E-02	5.19E-01	6.16E-04	1.32E-02	5.62E-01	6.61E-01	2.82E-02
213043_s_at	MED24	8.7481	7.6575	8.3510	7.8130	-0.8144	-0.1208	0.2763	-0.9352	9.06E-04	4.90E-01	1.01E-01	2.16E-03	2.34E-02	9.67E-01	6.55E-01	5.39E-02
222048_at	CRYBB2P1	7.1786	6.3572	7.1809	6.2439	-0.8792	-0.0555	-0.0577	-0.9347	5.66E-03	8.25E-01	8.28E-01	3.33E-02	6.72E-02	9.67E-01	7.30E-01	2.36E-01
227617_at	TMEM201	8.8840	8.2126	8.4590	7.9499	-0.5902	-0.3438	0.0811	-0.9341	3.74E-03	5.03E-02	6.23E-01	3.18E-03	5.24E-02	5.93E-01	6.83E-01	6.65E-02
1554954_at	C21orf90	7.1581	6.0757	6.8028	6.2274	-0.8289	-0.1018	0.2535	-0.9307	1.39E-03	5.90E-01	1.77E-01	4.94E-03	3.08E-02	9.67E-01	6.55E-01	8.65E-02
213160_at	DOCK2	8.6959	7.8965	8.9291	7.7675	-0.9805	0.0521	-0.1811	-0.9284	5.15E-03	8.50E-01	5.30E-01	4.45E-02	6.38E-02	9.67E-01	6.62E-01	2.72E-01
1554085_at	DDX51	7.8012	6.3977	7.4912	6.8813	-1.0067	0.0668	0.3968	-0.9199	1.63E-03	7.11E-01	7.74E-02	1.05E-02	3.38E-02	9.67E-01	6.55E-01	1.30E-01
225143_at	SFXN4	10.9452	10.4002	10.4083	10.0313	-0.4610	-0.4528	0.0840	-0.9139	1.24E-03	1.39E-03	4.32E-01	2.15E-04	2.89E-02	1.11E-02	6.55E-01	1.69E-02
223017_at	TXND12	12.1351	11.8568	11.1586	11.2224	-0.1073	-0.8054	0.1710	-0.9127	3.42E-01	3.56E-05	1.12E-01	1.48E-04	5.71E-01	2.38E-02	6.55E-01	1.53E-02
204629_at	PARVB	7.9747	7.1013	8.0467	7.0629	-0.9286	0.0168	-0.0552	-0.9118	1.32E-03	9.36E-01	8.03E-01	1.67E-02	3.00E-02	9.67E-01	7.24E-01	1.65E-01
212691_at	NUP188	8.9920	8.1273	8.6502	8.0828	-0.7160	-0.1931	0.1487	-0.9092	4.79E-04	1.85E-01	2.95E-01	1.28E-03	1.71E-02	9.15E-01	6.55E-01	4.11E-02
219502_at	NEIL3	6.5274	6.2570	5.7602	5.6186	-0.2680	-0.7028	0.0644	-0.9088	3.40E-01	7.45E-03	7.73E-01	1.77E-02	5.71E-01	2.54E-01	7.17E-01	1.71E-01
225695_at	C2orf18	8.2657	7.5537	7.7507	7.3569	-0.5529	-0.3559	0.1591	-0.9088	5.99E-03	4.70E-02	3.32E-01	3.13E-03	6.94E-02	5.76E-01	6.55E-01	6.61E-02
216299_s_at	XRCC3	6.2561	5.3404	5.8376	5.3484	-0.7025	-0.2053	0.2132	-0.9078	2.89E-03	2.67E-01	2.40E-01	5.07E-03	4.54E-02	9.67E-01	6.55E-01	8.78E-02
240124_at	Ls.16AN57	7.1018	5.6102	7.3568	6.1946	-1.3269	0.4197	0.1647	-0.9072	8.29E-04	1.54E-01	5.73E-01	5.14E-02	2.29E-02	8.77E-01	6.73E-01	2.91E-01
221274_s_at	HM12L	9.3116	9.0447	8.7659	8.4055	-0.3137	-0.5924	-0.0467	-0.9061	1.34E-03	1.19E-05	0.28E-01	1.79E-05	3.03E-02	1.10E-02	6.62E-01	6.20E-03
218697_at	NCKIPSD	8.2477	7.5578	7.7080	7.3425	-0.5277	-0.3775	0.1622	-0.9052	9.04E-03	4.19E-02	3.37E-01	3.80E-03	8.90E-02	5.58E-01	6.55E-01	7.43E-02
218560_s_at	JMJ04	7.1514	6.7375	7.4850	6.6120	-0.8254	-0.0779	-0.0475	-0.9034	1.32E-04	5.63E-01	7.37E-01	1.59E-03	7.58E-03	9.67E-01	7.06E-01	4.53E-02
205692_at	CD3D	8.8275	9.2948	7.3326	7.9261	0.5304	-1.4318	0.0631	-0.9014	4.40E-03	3.08E-06	6.80E-01	2.54E-03	5.83E-02	6.97E-03	6.96E-01	5.88E-02
222640_at	DNMT3A	8.2409	7.4606	8.0193	7.3420	-0.7288	-0.1701	0.0515	-0.8989	3.11E-03	3.75E-01	7.96E-01	1.08E-02	4.69E-02	9.67E-01	7.23E-01	1.31E-01
209527_at	EXOSC2	8.7670	8.0549	8.5589	7.8701	-0.7004	-0.1965	0.0116	-0.8969	6.53E-04	1.87E-01	9.38E-01	2.45E-03	2.02E-02	9.15E-01	7.52E-01	5.76E-02
217791_s_at	ALDH18A1	10.5989	9.5959	10.0465	9.7029	-0.6733	-0.2227	0.3297	-0.8960	5.90E-03	2.66E-01	7.57E-02	4.42E-03	6.88E-02	9.67E-01	6.55E-01	8.14E-02
225203_at	PPP1R16A	7.6162	6.5234	7.3667	6.7255	-0.8670	-0.0237	0.2258	-0.8907	9.80E-03	9.31E-01	4.28E-01	4.82E-02	9.30E-02	9.67E-01	6.55E-01	2.83E-01
213720_s_at	SMARCA4	10.2432	9.6858	10.1761	9.3563	-0.6886	-0.1983	-0.1312	-0.8869	1.14E-04	9.48E-02	2.37E-01	2.87E-04	7.08E-03	7.49E-01	6.55E-01	2.09E-02
226059_at	TOMM40L	8.5569	8.0041	8.2186	7.6707	-0.5503	-0.3588	0.0025	-0.8862	3.94E-03	4.36E-02	9.87E-01	3.31E-03	5.45E-02	5.64E-01	7.62E-01	6.79E-02
227216_at	RLTPR	7.4445	6.2049	7.2466	6.5596	-0.9633	-0.0758	0.2763	-0.8849	4.83E-03	7.69E-01	3.14E-01	4.11E-02	6.16E-02	9.67E-01	6.55E-01	2.63E-01
204928_s_at	SLC10A3	8.7560	8.0790	8.3456	7.8728	-0.5749	-0.3083	0.1021	-0.8831	9.17E-03	1.10E-01	5.88E-01	8.68E-03	8.98E-02	7.85E-01	6.77E-01	1.16E-01
221746_at	UBL4A	9.2175	8.2883	8.7427	8.3359	-0.6680	-0.2136	0.2612	-0.8816	8.44E-03	3.11E-01	2.06E-01	1.11E-02	8.48E-02	9.67E-01	6.55E-01	1.33E-01
218915_at	NF2	8.9707	8.5280	8.7007	8.0893	-0.5270	-0.3544	-0.0843	-0.8814	8.56E-03	5.09E-02	6.22E-01	5.29E-03	8.56E-02	5.95E-01	6.83E-01	8.92E-02
222212_s_at	LASS2	10.6427	10.0192	10.3166	9.7616	-0.5893	-0.2919	0.0342	-0.8812	1.32E-03	4.93E-02	8.07E-01	1.79E-03	3.00E-02	5.87E-01	7.25E-01	4.88E-02
206609_at	MAGEC1	8.3866	7.5254	8.7476	7.5067	-1.0510	0.1711	-0.1898	-0.8799	0.09E-03	6.03E-01	5.81E-01	9.62E-02	8.93E-02	9.67E-01	6.75E-01	3.91E-01
1555041_a_at	NAGA	9.8773	9.5163	9.3514	8.9989	-0.3568	-0.5217	0.0042	-0.8784	5.00E-02	9.11E-03	9.80E-01	5.92E-03	2.35E-01	2.83E-01	7.61E-01	9.59E-02
229009_at	SIX5	8.0179	7.0975	7.9345	7.1396	-0.8576	-0.0206	0.0628	-0.8782	7.10E-03	9.35E-01	8.16E-01	4.49E-02	7.62E-02	9.67E-01	7.27E-01	2.74E-01
224715_at	WDR34	9.0543	8.8953	8.5334	8.1772	-0.2576	-0.6195	-0.0986	-0.8771	8.05E-02	1.07E-03	4.84E-01	1.72E-03	3.00E-01	9.54E-02	6.58E-01	4.78E-02
205164_at	GCAT	9.0134	8.2528	8.6887	8.1374	-0.6559	-0.2200	0.1047	-0.8760	3.70E-04	9.71E-02	4.10E-01	8.83E-04	1.40E-02	7.55E-01	6.55E-01	3.38E-02
235384_at	NUDT19	8.3639	7.6968	8.8228	7.4912	-0.9993	0.1267	-0.3323	-0.8726	6.96E-03	6.70E-01	2.71E-01	5.95E-02	7.53E-02	9.67E-01	6.55E-01	3.10E-01
40273_at	SPHK2	8.1814	7.3691	7.8284	7.3112	-0.6647	-0.2054	0.1475	-0.8702	1.81E-03	2.10E-01	3.63E-01	3.82E-03	3.54E-02	9.33E-01	6.55E-01	7.47E-02
204305_at	MIPCE	8.2137	6.194	7.8274	7.3441	-0.5388	-0.3308	0.0555	-0.8696	4.60E-03	4.72E-02	7.23E-01	3.63E-03	5.98E-02	5.76E-01	7.03E-01	7.18E-02
222505_at	LMBR1	7.9180	6.9400	7.4015	7.0486	-0.6655	-0.2040	0.3125	-0.8695	4.37E-03	2.77E-01	7.18E-02	3.53E-03	5.81E-02	9.67E-01	6.55E-01	7.05E-02
212539_at	CHD1L	10.4008	9.6894	10.1554	9.5327	-0.6670	-0.2011	0.0443	-0.8681	1.04E-03	1.86E-01	7.72E-01	3.23E-03	2.57E-02	9.15E-01	7.17E-01	6.74E-02
217771_at	GOLM1	8.6886	8.8191	8.0030	7.8211	-0.0257	-0.8418	-0.1562	-0.8675	8.28E-01	4.45E-05	1.89E-01	4.85E-04	7.53E-01	2.40E-02	6.55E-01	2.55E-02
222659_at	IPO11	8.2652	7.3233	7.7322	7.3983	-0.6379	-0.2290	0.3040	-0.8669	5.96E-03	2.31E-01	8.65E-02	4.30E-03	6.92E-02	9.47E-01	6.55E-01	7.98E-02
202474_s_at	HCF1	8.6008	7.9805	8.2571	7.7343	-0.5715	-0.2950	0.0487	-0.8665	1.22E-03	4.03E-02	7.17E-01	1.49E-03	2.88E-02	5.49E-01	7.02E-01	4.40E-02
208837_at	TMED3	10.9143	10.8460	10.													

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
219182_at	TMEM231	7.8976	6.9979	7.7563	7.0938	-0.7811	-0.0227	0.1186	-0.8038	9.47E-05	8.51E-01	3.42E-01	1.29E-03	6.54E-03	9.67E-01	6.55E-01	4.11E-02
218130_at	C17orf62	9.2160	8.4820	9.2871	8.4122	-0.8045	0.0007	-0.0704	-0.8038	6.01E-03	9.98E-01	7.75E-01	4.37E-02	6.95E-02	9.67E-01	7.17E-01	2.70E-01
227294_at	ZNF689	7.9833	7.1325	7.7931	7.1803	-0.7318	-0.0712	0.1190	-0.8030	2.69E-03	6.99E-01	5.37E-01	1.53E-02	4.37E-02	9.67E-01	6.64E-01	1.58E-01
223132_s_at	TRIM8	8.2895	7.1383	8.1687	7.4866	-0.9167	0.1138	0.2345	-0.8029	1.00E-04	4.34E-01	9.07E-02	1.63E-03	6.59E-03	9.67E-01	6.55E-01	4.61E-02
229822_at	Hs.437857	7.3575	6.5226	7.4491	6.5577	-0.8631	0.0633	-0.0282	-0.7998	3.30E-03	7.78E-01	9.06E-01	4.00E-02	4.86E-02	9.67E-01	7.45E-01	2.99E-01
202830_s_at	SLC37A4	9.3580	8.9955	8.4426	8.5585	-0.1233	-0.6762	0.2392	-0.7995	4.55E-01	2.04E-03	1.36E-01	4.47E-03	6.37E-01	1.27E-01	6.55E-01	8.17E-02
202637_s_at	ICAM1	10.1840	9.7451	9.4922	9.3851	-0.2730	-0.5259	0.1659	-0.7989	1.01E-01	6.52E-03	2.93E-01	4.97E-03	3.37E-01	2.41E-01	6.55E-01	8.69E-02
203723_at	ITPKB	6.4237	5.2184	6.3648	5.6260	-0.9721	0.1744	0.2332	-0.7977	6.90E-04	3.89E-01	2.47E-01	1.65E-02	2.04E-02	9.67E-01	6.55E-01	1.65E-01
235434_at	Hs.442623	8.8707	8.3759	8.3142	8.0745	-0.3673	-0.4290	0.1276	-0.7962	4.73E-03	1.85E-03	2.13E-01	3.35E-04	6.06E-02	1.24E-01	6.55E-01	2.14E-02
227007_at	TMCO4	8.4183	7.6654	8.1677	7.6285	-0.6461	-0.1438	0.1068	-0.7898	2.01E-03	3.64E-01	5.11E-01	6.97E-03	3.71E-02	9.67E-01	6.59E-01	1.04E-01
224727_at	C19orf63	9.9240	9.6529	9.1496	9.1358	-0.1424	-0.6458	0.1286	-0.7882	3.75E-01	2.20E-03	4.32E-01	7.11E-03	5.92E-01	1.34E-01	6.55E-01	1.05E-01
204824_at	ENDOG	8.0610	7.3368	8.1469	7.2752	-0.7980	0.0121	-0.0737	-0.7858	1.46E-03	9.47E-01	7.02E-01	1.72E-02	3.16E-02	9.67E-01	6.99E-01	1.68E-01
202478_at	TRIB2	7.5767	6.8973	7.3666	6.7912	-0.6274	-0.1581	0.0520	-0.7855	1.60E-03	2.91E-01	7.35E-01	5.69E-03	3.32E-02	9.67E-01	7.05E-01	6.34E-02
225682_s_at	POLR3H	8.4314	7.7788	8.0827	7.6459	-0.5447	-0.2408	0.1079	-0.7855	2.43E-03	9.86E-02	4.42E-01	3.14E-03	4.13E-02	7.55E-01	6.56E-01	9.61E-02
209100_at	IFRD2	9.5834	8.6364	9.5638	8.7990	-0.8559	0.0715	0.0910	-0.7844	4.44E-03	7.60E-01	7.13E-01	4.87E-02	5.87E-02	9.67E-01	7.01E-01	2.84E-01
1556261_a_at	Hs.118609	6.7211	5.8109	7.2802	5.9406	-1.1249	0.3444	-0.2147	-0.7805	7.96E-04	1.64E-01	3.76E-01	4.25E-02	2.24E-02	8.87E-01	6.55E-01	2.66E-01
204252_at	CDK2	9.4739	8.9950	8.8145	8.6951	-0.2992	-0.4797	0.1798	-0.7788	6.40E-02	8.07E-03	2.23E-01	3.72E-03	2.65E-01	2.66E-01	6.55E-01	7.31E-02
208644_at	PARP1	10.8220	10.3097	10.7648	10.0444	-0.6164	-0.1612	-0.1040	-0.7776	2.75E-04	1.67E-01	3.62E-01	9.13E-04	1.19E-02	8.89E-01	6.55E-01	3.42E-02
218392_x_at	SFXN1	7.8168	7.3163	7.7652	7.0422	-0.6177	-0.1628	-0.1112	-0.7746	9.38E-03	4.04E-01	5.81E-01	2.20E-02	9.04E-02	9.67E-01	6.75E-01	1.90E-01
221817_at	DOLLP1	8.9851	8.8051	8.6274	8.2107	-0.2484	-0.5261	-0.0683	-0.7744	6.52E-02	1.61E-03	5.94E-01	2.15E-03	2.67E-01	1.18E-01	6.77E-01	5.38E-02
218418_s_at	KANK2	7.5346	7.2008	6.7691	6.7627	-0.1701	-0.6018	0.1637	-0.7719	1.40E-01	2.84E-04	1.24E-01	4.37E-04	3.89E-01	4.98E-02	6.55E-01	2.45E-02
201740_at	NDUFS3	10.3173	9.8319	10.2828	9.5456	-0.6113	-0.1605	-0.1259	-0.7718	6.47E-03	3.79E-01	5.01E-01	1.57E-02	7.25E-02	9.67E-01	6.58E-01	1.60E-01
200807_s_at	HSPD1	13.1136	12.1430	12.6903	12.3423	-0.6593	-0.1120	0.3113	-0.7713	3.64E-03	5.25E-01	5.93E-02	4.90E-03	5.13E-02	9.67E-01	6.55E-01	8.59E-02
217898_at	C15orf62	11.5467	11.5362	11.2011	10.7790	-0.2163	-0.5514	-0.2058	-0.7677	1.95E-01	6.05E-03	1.99E-01	6.09E-03	4.54E-01	2.34E-01	6.55E-01	9.72E-02
200687_s_at	SFB33	9.0331	8.3060	8.8390	8.2666	-0.6497	-0.1168	0.0773	-0.7666	3.11E-03	4.90E-01	6.61E-01	1.29E-02	4.69E-02	9.67E-01	6.92E-01	1.44E-01
212660_at	PHF15	8.2429	6.9773	8.5248	7.4802	-1.1551	0.3924	0.1105	-0.7628	1.26E-04	5.79E-02	5.72E-01	2.07E-02	7.50E-03	6.16E-01	6.72E-01	1.84E-01
212971_at	CARS	10.9818	10.6731	10.4320	10.2007	-0.2600	-0.5012	0.0487	-0.7612	1.19E-01	8.90E-03	7.67E-01	9.58E-03	3.62E-01	2.81E-01	7.15E-01	1.23E-01
227598_at	C7orf29	7.7373	6.8777	7.8168	6.9763	-0.8501	0.0891	0.0096	-0.7610	1.21E-06	2.64E-01	9.06E-01	1.38E-04	7.26E-04	9.67E-01	7.45E-01	1.49E-02
223095_at	MARVELD1	6.4550	5.6169	6.4897	5.6943	-0.8167	0.0561	0.0214	-0.7607	9.48E-03	8.27E-01	9.37E-01	7.58E-02	9.12E-02	9.67E-01	7.52E-01	3.50E-01
224954_at	SHMT1	9.5314	8.9329	9.0722	8.7712	-0.4498	-0.3104	0.1488	-0.7602	6.58E-03	3.83E-02	2.69E-01	2.64E-03	7.30E-02	5.40E-01	6.55E-01	6.01E-02
209418_s_at	THOC5	8.4880	7.9613	8.1556	7.7295	-0.4764	-0.2821	0.0503	-0.7584	4.88E-03	5.59E-02	7.20E-01	4.14E-03	6.20E-02	6.10E-01	7.02E-01	7.82E-02
203234_at	UPP1	7.4873	7.0639	6.4567	6.7289	-0.0756	-0.6828	0.3478	-0.7584	7.21E-01	8.83E-03	8.88E-02	1.74E-02	7.27E-01	2.80E-01	6.55E-01	1.70E-01
204549_at	IKBKE	7.8287	7.0441	7.5303	7.0707	-0.6221	-0.1359	0.1625	-0.7580	2.63E-03	3.92E-01	3.10E-01	7.21E-03	4.31E-02	9.67E-01	6.55E-01	1.06E-01
221188_s_at	CIDEB	8.5749	7.8641	8.1642	7.8177	-0.5286	-0.2285	0.1822	-0.7572	5.99E-04	5.28E-02	7.13E-02	2.87E-04	1.91E-02	5.97E-01	6.55E-01	2.09E-02
222477_s_at	TM7SF3	10.7297	10.7289	10.2076	9.9732	-0.1176	-0.6389	-0.1168	-0.7565	3.04E-01	2.24E-04	3.06E-01	1.04E-03	5.44E-01	4.41E-02	6.55E-01	3.64E-02
213097_s_at	DNAJC2	10.0429	8.8241	9.8953	9.2874	-0.9133	0.1578	0.3054	-0.7555	5.33E-03	5.44E-01	2.44E-01	5.88E-02	6.48E-02	9.67E-01	6.55E-01	3.08E-01
1559002_at	L0C340544	6.0893	5.3894	5.8268	5.3342	-0.5962	-0.1588	0.1036	-0.7550	3.02E-03	3.12E-01	5.17E-01	8.20E-03	4.63E-02	9.67E-01	6.60E-01	1.13E-01
203006_at	INPP5A	7.5383	6.7413	7.0688	6.7861	-0.5398	-0.2124	0.2572	-0.7522	3.68E-03	1.60E-01	5.71E-02	1.77E-03	5.17E-02	8.84E-01	6.55E-01	4.88E-02
226314_at	CHST14	8.6352	8.1670	8.4311	7.8857	-0.5068	-0.2427	-0.0386	-0.7495	6.54E-03	1.26E-01	8.06E-01	8.30E-03	7.30E-02	8.22E-01	7.25E-01	1.13E-01
36994_at	ATP6V0C	12.4530	12.1036	11.7430	11.7117	-0.1904	-0.5509	0.1590	-0.7413	1.02E-05	5.15E-04	1.35E-01	5.86E-04	3.38E-01	6.75E-02	6.55E-01	2.78E-02
218770_s_at	TMEM39B	9.0480	8.5724	8.4206	8.3091	-0.2936	-0.4454	0.1820	-0.7389	5.59E-02	8.81E-03	1.88E-01	3.29E-03	2.47E-01	2.80E-01	6.55E-01	6.78E-02
218795_at	ACP6	9.5914	8.7764	9.3576	8.8541	-0.6592	-0.0780	0.1558	-0.7372	6.94E-03	6.90E-01	4.43E-01	2.72E-02	7.53E-02	9.67E-01	6.56E-01	2.12E-01
227160_s_at	C20orf7	8.3932	7.8133	8.2333	7.6561	-0.5786	-0.1585	0.0014	-0.7371	1.19E-03	2.49E-01	9.92E-01	5.07E-03	3.20E-02	9.57E-01	7.63E-01	8.78E-02
218153_at	CARS2	10.6134	9.8825	10.3414	9.8773	-0.5975	-0.1386	0.1334	-0.7361	2.14E-03	3.50E-01	3.73E-01	6.21E-03	3.85E-02	9.67E-01	6.55E-01	9.83E-02
216996_s_at	FASTKD2	8.0353	7.1149	8.0272	7.3025	-0.8226	0.0898	0.0979	-0.7328	4.52E-03	6.92E-01	6.81E-01	5.42E-02	5.93E-02	9.67E-01	6.96E-01	2.98E-01
225006_x_at	TH1L	10.6548	9.7923	10.3439	9.9223	-0.6421	-0.0904	0.2205	-0.7325	7.50E-03	6.41E-01	2.62E-01	2.19E-02	7.83E-02	9.67E-01	6.55E-01	1.90E-01
212753_at	PCGF3	8.4674	7.5838	8.4718	7.7357	-0.8098	0.0781	0.0737	-0.7317	1.14E-04	5.47E-01	5.86E-01	4.06E-03	7.08E-03	9.67E-01	6.77E-01	7.77E-02
221481_x_at	HNRNPD	11.9460	11.4844	11.8400	11.2150	-0.5433	-0.1877	-0.0817	-0.7309	5.86E-03	2.47E-01	6.19E-01	1.13E-02	6.86E-02	9.57E-01	6.82E-01	1.34E-01
204016_at	LARS2	8.4460	7.7198	8.1389	7.7173	-0.5739	-0.1548	0.1523	-0.7286	5.00E-03	3.40E-01	3.57E-01	1.08E-02	6.30E-02	9.67E-01	6.55E-01	1.32E-01
238568_s_at	Hs.662710	6.1220	5.7348	5.2825	5.3978	-0.1360	-0.5882	0.2513	-0.7242	4.43E-01	7.00E-03	1.46E-01	1.12E-02	6.30E-01	2.50E-01	6.55E-01	1.34E-01
203944_x_at	HTN2A1	8.3844	7.7461	8.1788	7.6623	-0.5774	-0.1447	0.0609	-0.7222	7.83E-03	4.16E-01	7.42E-01	1.12E-02	8.04E-02	9.67E-01	7.07E-01	1.87E-01
218460_at	BEATR2	9.2632	8.4543	9.1568	8.5421	-0.7118	-0.0093	0.0972	-0.7211	1.07E-03	9.52E-01	5.50E-01	1.13E-02	2.62E-02	9.67E-01	6.68E-01	1.34E-01
212723_at	JMJ6D	8.7263	8.5244	8.2251	8.0068	-0.2101	-0.5094	-0.0082	-0.7195	1.58E-01	4.71E-03	9.56E-01	7.94E-03	4.14E-01	1.99E-01	7.56E-01	1.11E-01
239310_at	Hs.651197	6.1074	5.5750	5.6498	5.3952	-0.3935	-0.3187	0.1389	-0.7122	1.90E-03	6.84E-03	1.32E-01	2.98E-04	3.60E-02	2.43E-01	6.55E-01	2.11E-02
209420_s_at	SPMD1	8.3986	8.2034	7.7196	7.6864	-0.1142	-0.5980	0.0810	-0.7122	5.34E-01	8.04E-03	6.73E-01	2.62E-02	6.68E-01	2.65E-01	6.95E-01	2.08E-01
222942_s_at																	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
209262_s_at	NR2F6	9.3210	8.5479	9.1016	8.6635	-0.6056	-0.0519	0.1675	-0.6575	1.48E-03	7.09E-01	2.32E-01	7.16E-03	3.19E-02	9.67E-01	6.55E-01	1.05E-01
213848_at	ZDHHC7	6.9722	6.4065	7.2581	6.3154	-0.7542	0.0974	-0.1855	-0.6568	6.60E-03	6.61E-01	4.43E-01	6.56E-02	7.32E-02	9.67E-01	6.55E-01	3.24E-01
219530_at	PALB2	8.2092	7.6756	8.0389	7.5538	-0.5094	-0.1461	0.0243	-0.6554	5.29E-03	3.22E-01	8.73E-01	1.38E-02	6.47E-02	9.67E-01	7.39E-01	1.49E-01
210527_x_at	TUBA3C	6.9206	6.6518	6.7180	6.2664	-0.3602	-0.2940	-0.0914	-0.6542	7.10E-03	1.98E-02	4.11E-01	2.32E-03	7.62E-02	3.95E-01	6.55E-01	5.60E-02
226088_at	ZDHHC12	9.1555	9.1876	8.6439	8.5037	-0.0540	-0.5978	-0.0861	-0.6518	6.78E-01	1.04E-03	5.26E-01	7.54E-03	7.14E-01	9.39E-02	6.62E-01	1.08E-01
224486_s_at	C15orf41	6.9476	6.3559	6.5963	6.2961	-0.4460	-0.2056	0.1458	-0.6515	4.71E-03	1.20E-01	2.44E-01	4.09E-03	6.04E-02	8.09E-01	6.55E-01	7.80E-02
209620_s_at	ABC87	8.6567	7.7020	8.3896	8.0052	-0.6696	0.0181	0.2852	-0.6515	7.38E-03	9.28E-01	1.52E-01	3.38E-02	7.79E-02	9.67E-01	6.55E-01	2.38E-01
225150_s_at	RANK	6.6517	5.8272	6.4605	6.0004	-0.6423	-0.0090	0.1822	-0.6513	4.51E-03	9.59E-01	3.14E-01	2.64E-02	5.92E-02	9.67E-01	6.55E-01	2.08E-01
229997_at	VANGL1	7.2314	6.9339	6.3621	6.5804	-0.0396	-0.6114	0.2579	-0.6510	8.07E-01	3.68E-03	1.02E-01	1.09E-02	7.48E-01	1.74E-01	6.55E-01	1.32E-01
221216_s_at	SCMH1	7.8885	7.1798	7.5626	7.2388	-0.5163	-0.1334	0.1925	-0.6497	3.40E-03	3.35E-01	1.51E-01	5.29E-03	4.93E-02	9.67E-01	6.55E-01	8.92E-02
200630_x_at	SET	12.1679	11.6595	12.0944	11.5193	-0.5418	-0.1069	-0.0334	-0.6487	9.49E-03	5.33E-01	8.53E-01	3.04E-02	9.12E-02	9.67E-01	7.35E-01	2.25E-01
235713_at	ALKBH8	6.7608	6.0458	6.4871	6.1126	-0.5448	-0.1034	0.1702	-0.6482	1.64E-03	4.22E-01	1.79E-01	4.15E-03	3.37E-02	9.67E-01	6.55E-01	7.82E-02
202667_s_at	SLC39A7	9.2673	8.9707	8.7398	8.6205	-0.2080	-0.4388	0.0887	-0.6468	1.37E-01	7.36E-03	5.19E-01	8.35E-03	3.86E-01	2.53E-01	6.61E-01	1.14E-01
1554894_a_at	PCBD2	6.1824	5.7122	6.4582	5.5361	-0.6961	0.0498	-0.2259	-0.6463	1.98E-03	7.65E-01	1.75E-01	1.68E-02	3.70E-02	9.67E-01	6.55E-01	1.66E-01
213499_at	CLCN2	7.1782	6.5535	6.9376	6.5336	-0.5143	-0.1302	0.1104	-0.6445	1.47E-03	2.83E-01	3.63E-01	4.05E-03	3.17E-02	9.67E-01	6.55E-01	7.77E-02
1554599_x_at	GTF2H3	9.2473	8.6985	9.0505	8.6050	-0.4971	-0.1451	0.0516	-0.6423	3.28E-03	2.77E-01	7.05E-01	8.73E-03	4.85E-02	9.67E-01	7.00E-01	1.16E-01
229491_at	NHEDC2	6.7501	6.0078	6.8751	6.1083	-0.7545	0.1128	-0.0123	-0.6417	4.25E-04	4.39E-01	9.36E-01	1.53E-02	1.56E-02	9.67E-01	7.52E-01	1.58E-01
200757_s_at	CALU	10.9836	10.9312	10.4581	10.3421	-0.0842	-0.5573	-0.0319	-0.6415	5.36E-01	2.12E-03	8.24E-01	1.12E-02	6.69E-01	1.30E-01	7.28E-01	1.34E-01
1554597_at	Hs.556108	9.2230	8.7392	8.9930	8.5817	-0.4476	-0.1937	0.0362	-0.6413	6.87E-03	1.66E-01	7.96E-01	1.02E-02	7.47E-02	8.88E-01	7.23E-01	1.27E-01
219595_at	ZNF26	8.0390	7.0018	7.7780	7.3985	-0.7084	0.0678	0.3288	-0.6406	9.70E-03	7.61E-01	1.36E-01	5.17E-02	9.23E-02	9.67E-01	6.55E-01	2.92E-01
213269_at	ZNF248	6.5283	5.6236	6.3888	5.8917	-0.7009	0.0643	0.2038	-0.6367	3.91E-03	7.32E-01	2.88E-01	3.62E-02	5.44E-02	9.67E-01	6.55E-01	2.45E-01
222664_at	KCTD15	6.0414	4.8781	6.4080	5.4066	-1.0824	0.4475	0.0809	-0.6348	5.34E-05	1.60E-02	6.22E-01	2.17E-02	4.73E-03	3.56E-01	6.83E-01	1.89E-01
202715_at	CAD	9.5846	8.4942	9.4319	8.9509	-0.7857	0.1520	0.3047	-0.6337	1.38E-03	4.01E-01	7.35E-02	1.64E-02	3.07E-02	9.67E-01	6.55E-01	1.64E-01
209431_s_at	PATZ1	7.1238	5.9914	7.3695	6.4908	-1.0056	0.3726	0.1268	-0.6330	2.78E-04	6.31E-02	5.03E-03	3.85E-02	1.22E-02	6.39E-01	6.58E-01	2.54E-01
209367_at	STXB2P	9.1168	8.9134	8.5862	8.4848	-0.1524	-0.4796	0.0510	-0.6319	2.17E-01	2.36E-03	6.82E-01	5.91E-03	4.75E-01	1.37E-01	6.96E-01	9.59E-02
204998_s_at	ATF5	7.1900	6.3576	6.9936	6.5583	-0.6338	0.0021	0.1986	-0.6317	6.09E-03	9.91E-01	2.90E-01	3.41E-02	7.00E-02	9.67E-01	6.55E-01	2.39E-01
223039_at	C22orf13	9.5850	8.8520	9.2181	8.9576	-0.7468	0.1193	-0.0138	-0.6275	1.71E-03	5.03E-01	9.41E-01	4.02E-02	3.54E-02	9.67E-01	7.53E-01	2.60E-01
203508_at	TNFRSF1B	6.7993	6.9623	6.2460	6.1744	0.0457	-0.6706	-0.1173	-0.6249	7.82E-01	1.04E-03	4.75E-01	2.24E-02	7.39E-01	1.23E-01	6.58E-01	1.92E-01
224806_at	TRIM25	9.8617	9.0714	9.5569	9.2368	-0.5552	-0.0697	0.2352	-0.6249	5.14E-03	6.56E-01	1.25E-01	1.22E-02	6.39E-02	9.67E-01	6.55E-01	1.40E-01
218913_s_at	GMP1	6.6416	6.1077	6.4769	6.0314	-0.4542	-0.1561	0.0087	-0.6103	3.21E-03	2.05E-01	9.45E-01	7.35E-03	4.80E-02	9.30E-01	7.53E-01	1.07E-01
206752_s_at	DFBP	7.5747	7.0075	7.5895	6.9646	-0.5960	-0.0140	-0.0288	-0.6100	1.27E-04	8.84E-01	7.77E-01	2.35E-03	7.53E-03	9.67E-01	7.17E-01	5.64E-02
203654_s_at	COIL	7.7916	7.0873	7.8697	7.1823	-0.6959	0.0865	0.0085	-0.6094	5.32E-03	6.61E-01	9.68E-01	6.57E-02	6.47E-02	9.67E-01	7.59E-01	3.24E-01
202123_s_at	ABL1	8.7628	8.3617	8.7888	8.1551	-0.5174	-0.0903	-0.1163	-0.6077	9.26E-04	4.21E-01	3.03E-01	3.62E-03	2.37E-02	9.67E-01	6.55E-01	7.17E-02
216262_s_at	TGIF2	8.4396	7.7234	8.4189	7.8344	-0.6504	0.0451	0.0659	-0.6053	1.17E-03	7.54E-01	6.64E-01	1.89E-02	2.81E-02	9.67E-01	6.92E-01	1.77E-01
218500_at	C8orf55	8.2747	7.9841	7.7930	7.6717	-0.2059	-0.3971	0.0847	-0.6030	1.09E-01	7.44E-03	4.97E-01	7.12E-03	3.48E-01	2.54E-01	6.58E-01	1.05E-01
207168_s_at	H2AFY	11.0088	10.4640	10.7481	10.4078	-0.4426	-0.1585	0.1022	-0.6011	2.51E-03	1.72E-01	3.69E-01	4.19E-03	4.23E-02	8.96E-01	6.55E-01	7.84E-02
38157_at	DOM3Z	8.9095	8.1051	8.9320	8.3092	-0.7136	0.1132	0.0908	-0.6003	1.75E-03	5.04E-01	6.07E-01	3.67E-02	3.49E-02	9.67E-01	6.80E-01	2.46E-01
203068_at	KLHL21	7.5069	6.5722	7.5805	6.9126	-0.8013	0.2070	0.1334	-0.5943	6.91E-04	2.24E-01	4.33E-01	3.16E-02	2.04E-02	9.43E-01	6.55E-01	2.30E-01
228558_at	C14orf80	7.0869	6.7601	6.6189	6.4938	-0.2260	-0.3672	0.1209	-0.5932	6.05E-02	6.88E-03	3.69E-01	4.17E-03	2.58E-01	2.49E-01	6.55E-01	7.83E-02
207535_s_at	NFKB2	8.3096	8.7777	8.4074	7.7167	-0.5612	-0.0316	-0.1094	-0.5928	1.39E-02	8.04E-01	3.22E-01	9.09E-03	3.07E-02	9.67E-01	6.55E-01	1.19E-01
242272_at	ZNF785	7.3349	6.5705	7.5077	6.7430	-0.7645	0.1727	-0.0002	-0.5919	1.58E-03	3.40E-01	9.99E-01	5.04E-02	3.30E-02	9.67E-01	7.64E-01	2.88E-01
225562_at	RASA3	9.4121	8.5760	9.2420	8.8231	-0.6275	0.0385	0.2086	-0.5890	3.29E-03	8.13E-01	2.04E-01	2.47E-02	4.86E-02	9.67E-01	6.55E-01	2.01E-01
202159_at	FARSA	9.1334	8.7570	8.9866	8.5455	-0.4878	-0.1791	-0.0323	-0.5879	8.65E-03	1.77E-01	8.09E-01	1.23E-02	8.62E-02	9.08E-01	7.25E-01	1.41E-01
218827_s_at	CEP192	6.9683	6.5071	6.7534	6.3832	-0.4157	-0.1694	0.0455	-0.5851	4.31E-03	1.57E-01	7.03E-01	7.12E-03	5.78E-02	8.82E-01	6.99E-01	1.05E-01
221221_s_at	KLHL3	8.4760	7.5170	8.3754	7.8937	-0.7203	0.1380	0.2387	-0.5823	2.90E-03	4.58E-01	1.95E-01	4.07E-02	4.54E-02	9.67E-01	6.55E-01	2.61E-01
204402_at	RHBD3D	8.2107	7.6459	8.3027	7.6301	-0.6187	0.0381	-0.0539	-0.5806	2.16E-03	8.00E-01	7.34E-01	2.81E-02	3.88E-02	9.67E-01	7.05E-01	2.16E-01
213556_at	LOC390940	6.2045	5.5123	6.3351	5.6251	-0.7011	0.1217	-0.0089	-0.5794	4.83E-04	3.80E-01	9.51E-01	1.90E-02	1.71E-02	9.67E-01	7.55E-01	1.78E-01
206907_at	TNFSF9	7.1751	7.3370	6.0458	6.5961	0.3561	-0.9351	0.1942	-0.5790	1.51E-01	2.59E-03	4.24E-01	1.14E-01	4.05E-01	1.42E-01	6.55E-01	4.26E-01
212894_at	SUPV3L1	7.9138	7.2684	7.8072	7.3355	-0.5585	-0.0198	0.0869	-0.5783	2.64E-03	8.87E-01	5.54E-01	1.98E-02	4.32E-02	9.67E-01	6.69E-01	1.81E-01
228836_at	SLC25A35	7.6758	7.5247	7.3513	7.0980	-0.2202	-0.3756	-0.0511	-0.5778	7.45E-02	2.11E-03	5.93E-01	2.13E-03	2.28E-01	1.30E-01	6.77E-01	5.35E-02
201641_at	BST2	11.2822	11.3782	10.5734	10.7069	0.1147	-0.6901	0.0187	-0.5753	4.71E-01	1.44E-03	9.11E-01	3.60E-02	6.42E-01	1.13E-01	7.46E-01	2.44E-01
210416_s_at	CHEK2	8.3106	8.2337	7.3980	7.7400	0.1326	-0.7032	0.2094	-0.5706	4.65E-01	2.90E-03	2.50E-04	4.38E-02	6.40E-01	1.48E-01	6.55E-01	2.70E-01
213888_s_at	TRAF3IP3	9.1400	8.3344	9.4109	8.5715	-0.8225	0.2540	-0.0169	-0.5685	1.32E-03	1.90E-01	9.31E-01	6.74E-02	3.00E-02	9.17E-01	7.51E-01	3.29E-01
208445_s_at	BAZ1B	9.2217	8.8348	9.1460	8.6540	-0.4395	-0.1282	-0.0525	-0.5677	9.25E-03	3.61E-01	7.18E-01	2.10E-02	9.00E-02	9.67E-01	7.02E-01	1.86E-01
219798_s_at	MEPE	9.2146	8.8036	9.4042	8.6493	-0.5830	0.0177	-0.1719	-0.5653	7.45E-03	1.91E-01	3.40E-01	4.60E-02	7.81E-02	9.67E-01	6.55E-01	2.78E-01
46665_at	SEMA4C	8.4273	7.7440	8.													

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
218747_s_at	TAPBP1	9.3664	8.6707	9.7323	8.8636	-0.7821	0.2794	-0.0865	-0.5027	3.31E-03	1.91E-01	6.88E-01	1.25E-01	4.87E-02	9.17E-01	6.97E-01	4.46E-01
221206_s_at	Hs.632872	8.2167	7.7869	8.1568	7.7165	-0.4351	-0.0651	-0.0053	-0.5002	2.41E-03	5.48E-01	9.63E-01	1.27E-02	4.12E-02	9.67E-01	7.57E-01	1.43E-01
231809_x_at	PDCD7	7.0083	6.6850	7.2988	6.5220	-0.5501	0.0638	-0.2268	-0.4863	7.54E-03	7.00E-01	1.69E-01	5.13E-02	7.86E-02	9.67E-01	6.55E-01	2.91E-01
215487_x_at	Hs.516952	5.8048	5.2762	5.6678	5.3211	-0.4377	-0.0460	0.0910	-0.4837	2.50E-03	6.73E-01	4.21E-01	1.28E-02	4.22E-02	9.67E-01	6.55E-01	1.44E-01
223917_s_at	SLC39A3	10.2634	10.2451	9.6924	9.7799	0.0346	-0.5181	0.0528	-0.4835	7.86E-01	2.36E-03	6.95E-01	3.02E-02	7.43E-01	1.37E-01	6.98E-01	2.24E-01
224859_at	CD276	9.2425	9.0691	8.5735	8.7599	0.0065	-0.4890	0.1799	-0.4825	9.65E-01	8.48E-03	2.38E-01	4.19E-02	7.79E-01	2.74E-01	6.55E-01	2.65E-01
218290_at	PLEKHJ1	10.2824	9.8856	10.2071	9.7999	-0.4020	-0.0805	-0.0052	-0.4825	2.52E-03	4.28E-01	9.61E-01	1.06E-02	4.23E-02	9.67E-01	7.57E-01	1.30E-01
203143_s_at	KIAA0040	8.7118	8.8926	7.9528	8.2303	0.2292	-0.7106	0.0484	-0.4815	2.68E-01	5.21E-03	8.19E-01	1.35E-01	5.18E-01	2.11E-01	7.27E-01	4.64E-01
212726_at	PHF2	7.0748	6.2074	7.5677	6.5939	-0.9205	0.4397	-0.0532	-0.4808	1.59E-05	3.20E-03	6.58E-01	1.87E-02	2.58E-03	1.57E-01	6.91E-01	1.76E-01
208087_s_at	ZBP1	6.9009	5.8811	7.2947	6.4202	-0.9471	0.4665	0.0727	-0.4806	3.40E-03	8.41E-02	7.82E-01	2.17E-01	4.93E-02	7.16E-01	7.19E-01	5.63E-01
1556102_x_at	LOC389906	6.7250	6.0581	6.5351	6.2487	-0.4767	0.0003	0.1902	-0.4763	3.12E-03	9.98E-01	1.14E-01	1.37E-02	4.69E-02	9.67E-01	6.55E-01	1.49E-01
211075_s_at	CD47	12.2979	12.4235	11.3893	11.8217	0.2790	-0.7552	0.1534	-0.4763	5.39E-02	2.03E-04	2.44E-01	2.47E-02	2.43E-01	4.35E-02	6.55E-01	2.01E-01
231843_at	DDX55	7.3172	6.7725	7.1819	6.8415	-0.4425	-0.0331	0.1021	-0.4757	4.86E-03	7.88E-01	4.24E-01	2.42E-02	6.18E-02	9.67E-01	6.55E-01	1.99E-01
239763_at	Hs.660574	5.9065	5.4724	6.2098	5.4308	-0.6065	1.1309	-0.1725	-0.4756	1.29E-03	3.47E-01	2.08E-01	2.83E-02	2.96E-02	9.67E-01	6.55E-01	2.16E-01
239945_at	239945_at	7.4799	7.5913	6.2776	7.0074	0.4206	-0.8931	0.3092	-0.4724	1.30E-01	6.39E-03	2.42E-01	2.10E-01	3.76E-01	2.40E-01	6.55E-01	5.56E-01
211028_s_at	KHK	8.4733	8.4843	7.4011	8.0010	0.3055	-0.7778	0.2945	-0.4723	1.12E-01	1.52E-03	8.80E-02	5.87E-02	3.52E-01	1.17E-01	6.55E-01	3.08E-01
228482_at	CDRT4	8.0395	7.3097	8.2940	7.5677	-0.7280	0.2563	0.0018	-0.4717	7.48E-03	2.58E-01	9.94E-01	1.76E-01	7.83E-02	9.64E-01	7.63E-01	5.18E-01
224866_at	JMJDB8	9.6592	9.7170	8.8672	9.1895	0.1901	-0.6597	0.1323	-0.4697	2.60E-01	2.39E-03	4.35E-01	7.29E-02	5.11E-01	1.38E-01	6.55E-01	3.45E-01
202012_s_at	EXT2	10.5201	10.7931	10.0861	10.0521	0.1195	-0.5875	-0.1536	-0.4680	3.74E-01	1.29E-03	2.51E-01	2.85E-02	5.91E-01	1.08E-01	6.55E-01	2.17E-01
235573_at	Hs.593461	5.8681	5.1594	5.9095	5.4012	-0.6085	0.1416	0.1002	-0.4668	5.06E-03	4.14E-01	5.76E-01	9.07E-02	6.36E-02	9.67E-01	6.73E-01	3.81E-01
225001_at	Hs.655274	8.2302	7.9194	7.7574	7.7636	-0.1524	-0.3143	0.1585	-0.4667	1.23E-01	6.63E-03	7.27E-02	6.61E-03	3.67E-01	2.43E-01	6.55E-01	5.98E-02
203188_at	B3GNT1	10.3223	10.4576	9.7571	9.8587	0.1185	-0.5821	-0.0168	-0.4636	4.62E-01	4.36E-03	9.20E-01	7.96E-02	6.39E-01	1.91E-01	7.48E-01	3.59E-01
202153_s_at	NU62	9.9062	9.4917	9.8984	9.4442	-0.4343	-0.0276	-0.0199	-0.4619	2.57E-03	7.99E-01	8.63E-01	1.90E-02	4.26E-02	9.67E-01	7.36E-01	1.77E-01
206656_s_at	C20orf3	11.9404	11.9154	11.1453	11.4787	0.1542	-0.6159	0.1792	-0.4617	3.35E-01	2.81E-03	5.59E-01	5.79E-02	5.67E-01	1.45E-01	6.55E-01	3.08E-01
211432_s_at	TYRO3	7.7145	7.7338	6.8269	7.2529	0.2227	-0.6843	0.2033	-0.4616	1.81E-01	1.60E-03	2.02E-01	5.63E-02	4.41E-01	1.18E-01	6.55E-01	3.04E-01
210463_x_at	TRMT1	9.2046	8.1311	9.3391	8.7453	-0.8336	0.3744	0.2399	-0.4593	3.52E-03	1.12E-01	2.84E-01	1.59E-01	5.02E-02	7.91E-01	6.55E-01	4.97E-01
229022_at	ZFX	6.8490	6.2776	7.2469	6.3921	-0.7131	0.2562	-0.1417	-0.4569	7.79E-03	2.52E-01	5.31E-01	1.74E-01	8.02E-02	9.60E-01	6.63E-01	5.15E-01
226004_at	CABLES2	8.0763	7.7447	7.9168	7.6267	-0.3108	-0.1388	0.0208	-0.4496	1.23E-03	6.85E-02	7.76E-01	2.02E-03	2.88E-02	6.58E-01	7.17E-01	5.24E-02
225654_at	NSD1	6.6467	5.9219	6.6411	6.2025	-0.5817	0.1375	0.1431	-0.4442	9.71E-05	1.52E-01	1.05E-01	3.88E-03	6.58E-03	8.74E-01	6.55E-01	7.52E-02
209846_s_at	BTN3A2	9.5061	9.0970	9.4380	9.0638	-0.3917	-0.0507	0.0174	-0.4424	3.13E-03	6.18E-01	8.71E-01	1.67E-02	4.70E-02	9.67E-01	7.39E-01	1.85E-01
1554057_at	LOC645676	7.8151	7.3978	7.7811	7.3735	-0.4124	-0.0291	0.0048	-0.4416	2.74E-03	7.79E-01	9.65E-01	1.94E-02	4.40E-02	9.67E-01	7.58E-01	1.79E-01
202154_x_at	TUBB3	9.6352	9.5035	9.1027	9.1951	-0.0197	-0.4205	0.1120	-0.4401	8.55E-01	3.03E-03	3.11E-01	1.70E-02	7.59E-01	1.52E-01	6.55E-01	1.67E-01
219952_s_at	MCOLN1	8.5964	8.8623	8.0898	8.1574	0.1667	-0.6057	-0.0992	-0.4390	3.11E-01	3.64E-03	5.55E-01	9.02E-02	5.50E-01	1.72E-01	6.69E-01	3.80E-01
225212_at	SLC25A25	7.5732	7.4421	6.9439	7.1358	0.0304	-0.4678	0.1615	-0.4374	7.80E-01	1.64E-03	1.32E-01	1.24E-02	7.41E-01	1.19E-01	6.55E-01	1.41E-01
220441_at	DNAJC22	6.4260	6.7705	5.2737	5.9908	0.5308	-0.9660	0.1863	-0.4352	4.76E-03	8.16E-05	2.09E-01	5.38E-02	6.07E-02	2.90E-02	6.55E-01	2.97E-01
218016_s_at	POLR3E	9.8119	9.0580	9.7197	9.3770	-0.5493	0.1144	0.2066	-0.4349	3.01E-03	4.24E-01	1.37E-01	3.94E-02	4.63E-02	9.67E-01	6.55E-01	2.66E-01
226466_s_at	FAM58A	8.2365	7.8312	8.2242	7.8018	-0.4139	-0.0209	-0.0086	-0.4348	1.59E-03	8.27E-01	9.33E-01	1.42E-02	3.32E-02	9.67E-01	7.51E-01	1.52E-01
213448_at	Hs.656252	8.6842	8.6500	7.6902	8.2516	0.2636	-0.6962	0.2978	-0.4325	2.15E-01	6.46E-03	1.39E-01	1.30E-01	4.72E-01	2.41E-01	6.55E-01	4.55E-01
217882_at	TMEM111	11.3743	11.4656	10.8461	10.9431	0.0941	-0.5254	0.0028	-0.4313	5.07E-01	5.89E-03	9.86E-01	8.54E-02	6.69E-01	2.30E-01	7.62E-01	3.71E-01
208807_s_at	CHD3	7.5818	6.9365	7.7142	7.1520	-0.6038	0.1740	0.0416	-0.4298	2.27E-04	1.19E-01	7.05E-01	2.09E-02	1.03E-02	8.08E-01	7.00E-01	1.86E-01
220007_at	METTL8	7.7545	7.1812	8.0798	7.3288	-0.6621	0.2364	-0.0888	-0.4257	4.74E-06	7.26E-03	2.12E-01	1.77E-03	1.43E-03	2.51E-01	6.55E-01	4.88E-02
228951_at	Hs.593499	7.3559	6.9103	7.5372	6.9304	-0.5262	0.1007	-0.0806	-0.4255	7.54E-03	5.28E-01	6.29E-01	9.74E-02	7.86E-02	9.67E-01	6.83E-01	9.93E-01
227482_at	ADNK1	7.7457	7.5451	7.3128	7.3220	-0.0957	-0.3280	0.1049	-0.4237	2.91E-01	3.95E-03	2.40E-01	6.71E-03	5.35E-01	1.80E-01	6.55E-01	1.03E-01
208836_at	ATP1B3	13.1081	13.1406	12.5344	12.6856	0.0918	-0.5144	0.0593	-0.4226	3.95E-01	7.31E-04	5.94E-01	2.34E-02	6.05E-01	7.92E-02	6.77E-01	1.96E-01
221732_at	CANT1	9.4557	9.3467	9.0586	9.0348	-0.0664	-0.3545	0.0426	-0.4209	5.35E-01	1.71E-03	7.03E-01	2.45E-02	6.68E-01	2.51E-01	6.99E-01	2.01E-01
226475_at	FAM118A	7.0637	6.6514	7.0663	6.6451	-0.4168	-0.0019	-0.0045	-0.4186	4.01E-03	9.87E-01	9.70E-01	3.33E-02	5.50E-02	9.67E-01	7.59E-01	2.36E-01
210074_at	CTS12	8.6506	9.4885	7.1989	8.2346	0.9368	-1.3528	0.0989	-0.4160	2.09E-03	1.66E-04	6.79E-01	2.37E-01	3.80E-02	4.04E-02	6.96E-01	5.83E-01
211444_at	Hs.679409	5.9591	5.6578	6.0072	5.5433	-0.3826	-0.0332	-0.0813	-0.4158	6.77E-03	7.69E-01	4.90E-01	3.09E-02	7.42E-02	9.67E-01	6.58E-01	2.27E-01
205812_s_at	TMED9	12.8399	12.9153	12.1978	12.4282	0.1519	-0.5656	0.0765	-0.4136	3.24E-02	5.95E-06	2.22E-01	9.73E-04	1.84E-01	8.97E-03	6.55E-01	3.50E-02
53987_at	RANBP10	7.2260	6.7917	7.3258	6.8126	-0.4738	0.0604	-0.0394	-0.4134	4.95E-03	6.49E-01	7.78E-01	6.26E-02	6.24E-02	9.67E-01	7.18E-01	3.18E-01
227213_at	ADAT2	5.9115	5.0733	6.2901	5.5017	-0.8133	0.4035	0.0249	-0.4098	5.30E-03	1.03E-01	9.19E-01	2.54E-01	6.47E-02	7.68E-01	7.40E-01	5.97E-01
218557_at	NIT2	9.8978	9.1692	10.1002	9.4922	-0.6683	0.2627	0.0603	-0.4056	1.35E-03	1.06E-01	7.05E-01	9.90E-02	3.04E-02	7.79E-01	7.00E-01	3.97E-01
238470_at	DBNDD2	6.2678	6.1171	6.0620	5.8634	-0.1746	-0.2297	-0.0240	-0.4043	9.67E-03	1.98E-03	6.80E-01	9.23E-04	9.21E-02	1.25E-01	6.96E-01	3.45E-02
229892_at	EP400L	7.2404	6.8402	7.2952	6.8371	-0.4291	0.0258	-0.0290	-0.4033	6.25E-03	8.36E-01	8.26E-01	5.63E-02	7.11E-02	9.67E-01	7.29E-01	3.04E-01
218481_at	EXOSC5	8.6540	7.6520	9.0071	8.2509	-0.8790	0.4760	0.1229	-0.4030	9.20E-04	2.78E-02	5.31E-01	1.67E-01	2.36E-02	4.72E-01	6.63E-01	5.09E-01

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
201837_s_at	SUPT7L	9.3932	8.6790	9.5514	9.1085	-0.5786	0.2938	0.1356	-0.2847	1.24E-03	4.33E-02	3.04E-01	1.42E-01	2.89E-02	5.62E-01	6.55E-01	4.73E-01
212034_s_at	EXOC7	8.9196	8.3631	9.1092	8.6395	-0.5131	0.2330	0.0434	-0.2800	7.46E-03	1.53E-01	7.09E-01	1.45E-01	7.81E-02	8.76E-01	7.21E-01	5.90E-01
202136_at	ZMYND11	8.4029	7.6268	8.5606	8.1235	-0.6066	0.3272	0.1695	-0.2794	3.97E-03	6.83E-02	3.10E-01	2.42E-01	5.45E-02	6.57E-01	6.55E-01	5.89E-01
218278_at	WDR74	8.7330	8.1609	8.7129	8.4538	-0.4156	0.1364	0.1565	-0.2792	7.61E-03	2.91E-01	2.15E-01	1.28E-01	7.91E-02	9.67E-01	6.55E-01	4.54E-01
214857_at	Hs.656457	6.4828	5.9789	6.7257	6.2058	-0.5119	0.2349	-0.0080	-0.2770	9.19E-03	1.64E-01	9.62E-01	2.68E-01	8.98E-02	8.87E-01	7.57E-01	6.06E-01
229821_at	LRRFC37A4	6.6946	6.2127	6.8123	6.4283	-0.4329	0.1666	0.0489	-0.2663	3.56E-03	1.66E-01	6.84E-01	1.43E-01	5.05E-02	8.89E-01	6.96E-01	4.75E-01
226564_at	ZFRAT	7.1203	6.8378	7.5484	6.8556	-0.4876	0.2230	-0.2051	-0.2647	2.90E-03	9.74E-02	8.72E-02	1.13E-01	4.55E-02	7.55E-01	6.55E-01	4.25E-01
226879_at	HVCN1	9.5776	10.0605	8.2566	9.3156	-0.7709	-1.0329	0.2880	-0.2620	2.09E-03	2.73E-04	1.11E-01	2.82E-01	3.70E-02	4.91E-02	6.55E-01	6.18E-01
238436_s_at	BRN905	6.4122	5.7660	6.5117	6.1578	-0.5000	0.2456	0.1461	-0.2544	2.25E-03	6.56E-02	2.32E-01	1.50E-01	3.80E-02	6.47E-01	6.55E-01	4.85E-01
215460_x_at	BRD1	7.2478	6.9011	7.6425	6.9948	-0.4972	0.2442	-0.1505	-0.2530	8.76E-04	4.02E-02	1.49E-01	9.41E-02	2.32E-02	5.49E-01	6.55E-01	3.88E-01
204458_at	PLA2G15	7.5413	7.8028	6.9291	7.2897	0.3111	-0.5626	0.0495	-0.2516	1.75E-02	5.28E-04	6.71E-01	1.52E-01	1.30E-01	6.75E-02	6.94E-01	4.87E-01
229342_at	Hs.658977	6.8939	6.5568	7.1582	6.6423	-0.4265	0.1750	-0.0894	-0.2515	7.96E-03	1.97E-01	5.10E-01	2.07E-01	8.15E-02	9.23E-01	6.59E-01	5.53E-01
226410_at	CTU2	7.9476	7.6521	8.0674	7.6976	-0.3326	0.0826	-0.0372	-0.2500	7.75E-03	4.19E-01	7.27E-01	1.23E-01	8.01E-02	9.67E-01	7.04E-01	4.44E-01
200929_at	TMED10	11.0680	11.3205	10.6927	10.8222	0.1910	-0.4368	-0.0615	-0.2458	1.03E-01	2.48E-03	5.89E-01	1.51E-01	3.39E-01	1.41E-01	6.77E-01	4.86E-01
202284_s_at	CDKN1A	9.0436	9.8626	7.2944	8.8018	1.1632	-1.4050	0.3442	-0.2418	1.29E-02	4.65E-03	3.91E-01	6.64E-01	1.09E-01	1.98E-01	6.55E-01	7.96E-01
205169_at	RBBP5	7.0203	7.1428	6.6990	6.7921	0.1078	-0.3360	-0.0147	-0.2282	2.64E-01	4.82E-03	8.82E-01	1.31E-01	5.16E-01	2.03E-01	7.40E-01	4.57E-01
204711_at	KIAA0753	7.2857	6.7822	7.5581	7.0598	-0.5009	0.2750	0.0025	-0.2259	1.68E-03	3.83E-02	9.84E-01	2.21E-01	3.40E-02	5.40E-01	7.62E-01	5.67E-01
201216_at	ERP29	12.7476	12.9081	12.4465	12.5288	0.1214	-0.3402	-0.0391	-0.2188	1.80E-01	2.79E-03	6.67E-01	1.15E-01	4.40E-01	1.45E-01	6.93E-01	4.28E-01
200805_at	LMAN2	11.2520	11.4128	10.8591	11.0374	0.1696	-0.3842	0.0087	-0.2146	1.66E-01	7.68E-03	9.43E-01	2.39E-01	4.23E-01	2.59E-01	7.53E-01	5.85E-01
218191_s_at	LMBRD1	10.7184	10.8257	10.1811	10.5085	0.2174	-0.4272	0.1100	-0.2098	1.00E-01	5.73E-03	3.85E-01	2.50E-01	3.35E-01	2.27E-01	6.55E-01	5.94E-01
224471_s_at	BTRC	6.6764	6.4394	7.1368	6.4693	-0.4522	0.2451	-0.2152	-0.2071	5.99E-03	8.47E-02	8.74E-02	2.22E-01	6.94E-02	7.17E-01	6.55E-01	5.67E-01
212052_s_at	TBC1D9B	8.4782	8.1908	8.5575	8.2732	-0.2859	0.0809	0.0016	-0.2050	2.49E-03	2.71E-01	9.83E-01	8.27E-02	4.22E-02	9.67E-01	7.61E-01	3.67E-01
223158_s_at	NEK6	9.5359	8.2640	10.1068	9.3485	-1.0151	0.8277	0.2568	-0.1874	2.75E-03	8.82E-03	3.30E-01	6.07E-01	4.40E-02	2.80E-01	6.55E-01	7.79E-01
203923_s_at	CYBB	5.9984	5.7116	6.0467	5.8118	-0.2609	0.0743	0.0260	-0.1866	9.32E-03	3.73E-01	7.64E-01	1.53E-01	9.04E-02	9.67E-01	7.14E-01	4.89E-01
228138_at	ZNF498	6.9022	6.4023	7.1931	6.7195	-0.4867	0.3040	0.0131	-0.1827	1.44E-04	3.49E-03	8.77E-01	1.54E-01	8.09E-03	1.68E-01	7.39E-01	4.91E-01
205189_s_at	FANCC	7.1677	7.4367	6.9993	6.9906	0.1302	-0.3072	-0.1388	-0.1770	7.99E-01	7.42E-03	1.25E-01	1.61E-01	4.39E-01	2.54E-01	6.55E-01	5.01E-01
227805_at	Hs.597025	7.4295	6.6272	7.6377	7.2583	-0.5908	0.4197	0.2114	-0.1712	6.41E-03	3.35E-02	2.26E-01	4.74E-01	7.20E-02	5.13E-01	6.55E-01	7.30E-01
202973_x_at	FAM13A	6.5518	5.9201	7.0133	6.3812	-0.6319	0.4613	-0.0002	-0.1706	5.77E-03	2.75E-02	9.99E-01	5.35E-01	6.81E-02	4.69E-01	7.64E-01	7.52E-01
219675_s_at	UXS1	8.8925	9.0428	8.2064	8.7309	0.3374	-0.4990	0.1871	-0.1615	5.48E-02	9.81E-03	2.42E-01	4.63E-01	2.45E-01	2.97E-01	6.55E-01	7.25E-01
222704_at	POLR1A	6.9846	6.5935	7.0995	6.8278	-0.3314	0.1747	0.0597	-0.1567	8.78E-04	3.02E-02	4.11E-01	1.47E-01	2.32E-02	4.92E-01	6.55E-01	4.80E-01
211237_s_at	FGFR4	7.5001	8.1403	6.1212	7.3453	0.9321	-0.1070	0.2920	-0.1549	2.21E-03	8.12E-04	2.01E-01	6.16E-01	3.92E-02	8.04E-02	6.55E-01	7.82E-01
219513_s_at	SH2D3A	7.0693	7.6372	6.4031	6.9148	0.5398	-0.6943	-0.0281	-0.1545	2.83E-03	5.45E-04	8.46E-01	4.59E-01	4.47E-02	6.86E-02	7.34E-01	7.23E-01
202727_s_at	IFNGR1	7.7015	8.103	7.3440	7.5509	0.1578	-0.3084	0.0490	-0.1506	7.89E-02	3.78E-03	5.70E-01	2.34E-01	2.97E-01	1.76E-01	6.71E-01	5.79E-01
201086_x_at	SON	10.2602	9.8073	10.3635	10.1251	-0.3457	0.2106	0.1072	-0.1351	2.21E-03	2.99E-02	2.06E-01	2.55E-01	3.92E-02	4.90E-01	6.55E-01	5.97E-01
239169_at	RD1M	5.8936	6.3612	5.4092	5.7704	0.4144	-0.5376	-0.0532	-0.1232	1.72E-02	4.35E-03	7.31E-01	5.77E-01	1.29E-01	1.91E-01	7.04E-01	7.68E-01
209263_x_at	TSPAN4	9.1163	9.6637	8.7187	8.9944	0.4116	-0.5334	-0.1359	-0.1219	2.51E-02	6.95E-03	4.07E-01	5.94E-01	1.58E-01	2.50E-01	6.55E-01	7.75E-01
203659_s_at	TRIM13	7.5206	7.0369	8.0374	7.3988	-0.5611	0.4394	-0.0775	-0.1218	9.00E-03	2.89E-02	6.74E-01	6.40E-01	8.89E-02	4.31E-01	6.95E-01	7.89E-01
229789_at	TIGD3	5.9559	6.2488	5.7070	5.8344	0.2101	-0.3316	-0.0828	-0.1215	2.62E-02	2.34E-03	3.23E-01	3.07E-01	1.62E-01	1.87E-01	6.55E-01	6.37E-01
204140_at	TPST1	7.8130	7.9670	7.2526	7.6933	0.2973	-0.4171	0.1433	-0.1197	3.79E-02	7.74E-03	2.64E-01	4.98E-01	2.01E-01	2.59E-01	6.55E-01	7.39E-01
228126_x_at	CTXN1	6.4808	5.8978	6.8548	6.3619	-0.5379	0.4190	0.0450	-0.1189	9.75E-03	3.15E-02	8.02E-01	6.42E-01	9.26E-02	4.99E-01	7.24E-01	7.90E-01
1558938_at	Hs.675197	6.2210	5.7978	6.5159	6.1045	-0.4173	0.3008	0.0059	-0.1164	1.87E-03	1.21E-02	9.55E-01	4.42E-01	3.59E-02	3.19E-01	7.55E-01	7.18E-01
1553099_at	TIGD1	6.1021	5.1388	6.8384	5.9906	-0.9055	0.7941	0.0577	-0.1114	3.47E-03	7.33E-03	8.19E-01	7.55E-01	4.99E-02	2.53E-01	7.27E-01	8.17E-01
204118_at	CD48	12.0207	11.1513	12.2553	11.9106	-0.8070	0.4969	0.2623	-0.1101	4.58E-03	1.34E-02	1.07E-01	6.05E-01	5.96E-02	3.32E-01	6.55E-01	7.78E-01
224818_at	SORT1	9.9377	10.3827	9.0530	9.8528	0.6224	-0.7073	0.1774	-0.0849	1.40E-04	5.27E-05	6.72E-02	4.94E-01	7.93E-03	2.40E-02	6.55E-01	7.86E-01
226121_at	DHRS13	9.5717	9.9017	9.0344	9.4920	0.3938	-0.4735	0.0638	-0.0797	1.83E-02	7.19E-03	6.68E-01	7.05E-01	1.33E-01	2.51E-01	6.93E-01	8.06E-01
227205_at	TAF1	7.3356	7.1553	7.7841	7.2575	-0.3534	0.2753	-0.1731	-0.0781	7.80E-03	2.63E-02	9.51E-02	5.63E-01	8.03E-02	4.60E-01	6.55E-01	7.65E-01
207035_at	SLC30A3	6.5863	6.9431	6.3129	6.5181	0.2810	-0.3492	-0.0758	-0.1662	7.16E-03	1.99E-03	3.82E-01	5.72E-01	7.64E-02	1.25E-01	6.55E-01	7.67E-01
201887_at	IL13RA1	5.9923	6.5986	5.3546	5.9255	0.5886	-0.6554	-0.0177	-0.0668	3.00E-03	1.53E-03	9.12E-01	7.68E-01	4.63E-02	1.17E-01	7.46E-01	8.19E-01
238590_x_at	TMEM107	10.2103	11.0491	9.6280	10.1497	0.6803	-0.7408	-0.1585	-0.0606	9.33E-03	5.87E-03	4.76E-01	8.45E-01	9.04E-02	2.30E-01	6.55E-01	8.30E-01
223233_s_at	CGN	7.2222	7.8993	6.2666	7.2263	0.8184	-0.8144	0.1413	0.0040	3.79E-04	3.93E-04	3.73E-01	9.85E-01	1.43E-02	5.93E-02	6.55E-01	8.50E-01
218900_at	CNNM4	7.0276	7.5711	6.4933	7.0546	0.5524	-0.5254	0.0089	0.0270	3.16E-04	4.52E-04	9.34E-01	8.58E-01	1.28E-02	6.47E-02	7.51E-01	8.33E-01
239451_at	Hs.658060	8.4219	7.5355	9.0533	8.4597	-0.7400	0.7778	0.1464	0.0378	1.23E-02	9.54E-03	5.69E-01	9.16E-01	1.06E-01	2.92E-01	6.71E-01	8.44E-01
204679_at	KCNK1	8.4831	9.1334	7.9009	8.5330	0.6412	-0.5913	-0.0090	0.0499	3.59E-03	5.73E-03	9.60E-01	8.44E-01	5.07E-02	2.27E-01	7.57E-01	8.30E-01
209699_x_at	AKR1C2	5.9896	6.4561	5.6812	6.0607	0.4230	-0.3519	-0.0435	0.0711	9.93E-03	2.41E-02	7.59E-01	7.23E-01	9.38E-02	4.39E-01	7.12E-01	8.10E-01
239236_at	Hs.632837	5.8394	5.3006	6.2194	5.9105	-0.4238	0.4949	0.1149	0.0711	1.36E-02	6.00E-03	4.39E-01	7.31E-01	1.13E-01	2.34E-01	6.56E-01	8.11E-01
225499_at																	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
239267_at	Hs.632688	5.8789	5.6864	6.1792	6.1360	-0.1179	0.3750	0.0746	0.2571	2.27E-01	4.12E-03	4.81E-01	1.09E-01	5.13E-01	1.84E-01	6.58E-01	4.16E-01
200905_x_at	Hs.632688	12.0611	12.7131	11.6462	12.3662	0.6635	-0.4035	0.0565	0.2601	2.61E-01	5.82E-03	6.43E-01	1.56E-01	1.05E-02	2.29E-01	6.87E-01	4.93E-01
1559201_a_at	Hs.720502	6.2939	6.6796	5.8629	6.5660	0.5394	-0.2773	0.1537	0.2621	1.79E-03	5.13E-02	2.33E-01	1.58E-01	3.53E-02	5.95E-01	6.55E-01	4.96E-01
205230_at	RPX3A	5.3765	6.0736	5.2126	5.6389	0.5617	-0.2993	-0.1354	0.2624	8.95E-04	2.92E-02	2.64E-01	1.39E-01	2.34E-02	4.84E-01	6.55E-01	4.68E-01
202756_s_at	GPC1	6.2390	6.6650	5.8935	6.5016	0.5171	-0.2545	0.0911	0.2626	4.81E-04	2.79E-02	3.80E-01	1.96E-01	1.71E-02	4.73E-01	6.55E-01	3.88E-01
1554863_s_at	DKM5	5.5616	6.0393	5.3369	5.8249	0.4829	-0.2196	0.0051	0.2633	9.67E-03	1.71E-01	9.75E-01	2.69E-01	9.21E-02	8.94E-01	7.60E-01	6.07E-01
231219_at	CTMTM1	6.7318	7.2887	6.0682	7.0080	0.7484	-0.4721	0.1915	0.2763	7.77E-03	6.00E-02	4.15E-01	4.06E-01	8.01E-02	6.27E-01	6.55E-01	7.00E-01
219888_at	SPAGA4	10.2112	10.7510	9.6959	10.4876	0.6657	-0.3893	0.1259	0.2763	7.42E-03	7.52E-02	5.47E-01	3.58E-01	7.81E-02	6.86E-01	6.67E-01	6.74E-01
216650_at	216650_at	5.7004	5.8292	5.8524	5.9783	0.1273	0.1506	-0.0014	0.2779	5.14E-03	1.87E-03	9.70E-01	6.91E-04	6.39E-02	1.24E-01	7.59E-01	2.93E-02
225557_at	CSRNP1	6.2833	6.5765	5.6140	6.5655	0.6224	-0.3401	0.3291	0.2823	7.92E-03	9.64E-02	6.75E-02	2.36E-01	8.12E-02	7.52E-01	6.55E-01	5.82E-01
201061_s_at	STOM	9.9942	10.8701	8.9361	10.2800	1.1099	-0.8241	0.2340	0.2858	3.15E-05	3.01E-04	1.09E-01	1.58E-01	3.83E-03	5.06E-02	6.55E-01	4.96E-01
205905_s_at	MICA	6.9099	7.7258	6.6020	7.1957	0.7048	-0.4190	-0.1111	0.2858	6.81E-04	1.48E-02	4.58E-01	1.94E-01	2.04E-02	3.45E-01	6.58E-01	5.38E-01
203365_s_at	MMP15	6.1356	6.7726	5.8920	6.4245	0.5847	-0.2958	-0.0522	0.2889	7.38E-03	1.16E-01	7.78E-01	2.88E-01	7.79E-02	9.97E-01	7.18E-01	6.23E-01
220127_s_at	FBXL12	9.6940	9.9737	9.4236	9.9918	0.4240	-0.1262	0.1442	0.2978	9.18E-03	3.51E-01	2.86E-01	1.34E-01	8.98E-02	7.97E-01	6.55E-01	4.62E-01
224995_at	SPIRE1	5.8697	6.2895	5.5448	6.1733	0.5242	-0.2205	0.1044	0.3036	7.56E-04	6.55E-02	3.51E-01	7.58E-02	2.18E-02	6.47E-01	6.55E-01	3.50E-01
1564229_at	LOC729173	5.8535	6.2456	5.8624	6.1572	0.3434	-0.0397	-0.0487	0.3037	9.43E-03	7.13E-01	6.68E-01	8.55E-02	9.08E-02	9.67E-01	6.93E-01	3.72E-01
226597_at	REEF6	7.5766	8.6765	7.2593	7.8838	0.8622	-0.5550	-0.2377	0.3072	4.44E-03	3.83E-02	3.27E-01	3.68E-01	5.87E-02	5.40E-01	6.55E-01	6.79E-01
243417_at	Hs.719383	6.0594	5.6945	6.9373	6.3678	-0.4672	0.7756	-0.1022	0.3084	6.28E-02	6.48E-03	6.69E-01	3.72E-01	2.63E-01	2.41E-01	6.94E-01	6.81E-01
231991_at	C20orf160	5.1534	5.7958	4.8619	5.4632	0.6218	-0.3120	-0.0206	0.3098	9.87E-05	9.02E-03	8.41E-01	5.90E-02	6.58E-03	2.82E-01	7.33E-01	3.09E-01
224749_at	ITFG3	8.0803	8.4862	7.6369	8.3917	0.5803	-0.2690	0.1744	0.3114	1.79E-03	7.33E-02	2.05E-01	1.20E-01	3.52E-02	6.80E-01	6.55E-01	4.39E-01
236279_at	Hs.659129	5.5615	6.3066	5.4248	5.8753	0.5978	-0.2840	-0.1474	0.3138	1.86E-04	1.81E-02	1.42E-01	1.99E-02	9.71E-03	3.77E-01	6.55E-01	2.58E-01
209568_s_at	RGL1	7.2267	7.8765	6.9749	7.5416	0.6083	-0.2933	-0.0415	0.3150	5.60E-05	7.53E-03	6.55E-01	3.77E-02	4.83E-03	2.56E-01	6.91E-01	2.50E-01
217995_at	SQRDL	8.4124	9.1202	7.8327	8.7279	0.8014	-0.4860	0.0937	0.3155	4.14E-03	4.61E-02	6.82E-01	3.41E-01	5.63E-02	7.57E-01	6.96E-01	6.64E-01
222896_at	TMEM38A	8.4818	8.7527	7.9801	8.7998	0.5453	-0.2743	0.2743	0.3181	4.54E-03	1.52E-01	5.13E-02	7.47E-02	5.94E-02	7.84E-01	6.55E-01	3.93E-01
227604_at	LOC151146	6.0924	6.3158	6.0181	6.4119	0.3086	0.0109	0.0851	0.3195	2.18E-03	8.84E-01	2.66E-01	1.31E-02	3.89E-02	9.67E-01	6.55E-01	1.46E-01
201105_at	LGALS1	12.4648	13.3672	11.7314	12.7856	0.9783	-0.6575	0.0759	0.3208	5.66E-03	3.82E-02	7.98E-01	4.51E-01	6.72E-02	5.40E-01	7.23E-01	7.20E-01
1558412_at	LOC113230	7.0083	7.3890	6.7948	7.3303	0.4582	-0.1361	0.0774	0.3221	6.24E-03	3.19E-01	5.80E-01	1.28E-01	7.11E-02	9.67E-01	6.75E-01	4.54E-01
219943_s_at	USP46	6.0583	6.1881	6.3928	6.3818	0.0593	0.2641	-0.0704	0.3234	4.50E-01	6.57E-03	3.80E-01	1.65E-02	6.33E-01	2.42E-01	6.55E-01	1.65E-01
208626_s_at	VAT1	8.4508	8.9264	8.2261	8.7765	0.5129	-0.1873	0.0374	0.3256	5.88E-03	2.23E-01	8.11E-01	1.66E-01	6.87E-02	9.42E-01	7.26E-01	5.07E-01
227829_at	GYTL1B	6.8724	7.4159	6.6455	7.1984	0.5482	-0.2222	0.0047	0.3260	1.04E-03	8.62E-02	9.70E-01	9.64E-02	2.57E-02	7.22E-01	7.59E-01	3.91E-01
218204_s_at	FYCO1	6.8304	6.8584	7.0813	7.1566	0.0517	0.2746	0.0237	0.3262	4.81E-01	3.59E-03	7.58E-01	1.44E-02	6.46E-01	1.71E-01	7.12E-01	1.53E-01
212838_at	DNMBP	6.1161	6.5585	5.7952	6.4436	0.5454	-0.2179	0.1030	0.3275	1.89E-03	1.17E-01	4.46E-01	1.09E-01	3.60E-02	8.04E-01	6.55E-01	4.16E-01
203825_at	BRD3	9.0494	8.9000	9.4946	9.3770	-0.1335	0.4611	0.0159	0.3276	1.28E-01	2.62E-04	8.55E-01	2.51E-02	3.74E-01	4.91E-02	7.36E-01	2.03E-01
226715_at	FOXK1	8.5267	8.0135	8.8019	8.8586	-0.2282	0.5602	0.2849	0.3319	2.17E-01	9.86E-03	9.78E-02	1.61E-01	4.75E-01	2.97E-01	6.55E-01	5.01E-01
217650_x_at	ST3GAL2	8.2035	8.6729	8.1363	8.5369	0.4350	-0.1017	-0.0344	0.3334	5.09E-03	4.12E-01	7.90E-01	1.98E-02	6.37E-02	9.67E-01	7.21E-01	3.90E-01
205068_s_at	ARHGAP26	5.9623	6.7349	4.9442	6.2980	1.0633	-0.7275	0.2906	0.3358	1.98E-03	1.64E-02	2.63E-01	3.54E-01	3.70E-02	3.60E-01	6.55E-01	6.72E-01
238078_at	SEC22A	5.9607	5.9248	6.1855	6.2989	0.0387	0.2994	0.0746	0.3382	6.17E-01	3.08E-03	3.47E-01	1.26E-02	6.96E-01	1.53E-01	6.55E-01	1.43E-01
204922_at	C11orf80	7.2950	7.7926	6.7418	7.6341	0.6949	-0.3559	0.1973	0.3391	3.55E-03	7.61E-02	2.92E-01	2.08E-01	5.05E-02	6.86E-01	6.55E-01	5.54E-01
225081_s_at	CDCA7L	8.4451	9.5967	7.9393	8.7868	0.9995	-0.6578	-0.1520	0.3417	7.78E-03	5.16E-02	6.33E-01	4.53E-01	8.01E-02	9.95E-01	6.85E-01	7.20E-01
210307_s_at	KLHL25	5.8964	6.2403	5.8368	6.2389	0.3730	-0.0305	0.0291	0.3425	2.75E-03	7.46E-01	7.71E-01	4.32E-02	4.40E-02	9.67E-01	7.16E-01	2.45E-01
239800_at	Hs.86080	6.3936	6.6629	6.5728	6.7409	0.2187	0.1286	-0.0506	0.3474	8.19E-03	7.85E-02	4.68E-01	6.04E-03	8.31E-02	6.95E-01	6.58E-01	9.70E-02
1557114_a_at	Hs.664925	5.6580	6.0434	5.5941	6.0058	0.3985	-0.0508	0.0131	0.3477	2.66E-03	6.14E-01	9.01E-01	4.38E-02	4.34E-02	9.67E-01	7.44E-01	2.70E-01
226358_at	APH1B	7.1206	7.5671	6.6797	7.4730	0.6199	-0.2675	0.1734	0.3524	2.55E-03	1.08E-01	2.71E-01	1.28E-01	4.25E-02	7.81E-01	6.55E-01	4.54E-01
219469_at	DYNC2H1	5.4462	5.9777	5.2706	5.7989	0.5299	-0.1772	-0.0016	0.3527	7.36E-03	2.79E-01	9.92E-01	1.65E-01	7.79E-02	9.67E-01	7.63E-01	5.06E-01
209216_at	WDR45	8.3695	8.1984	8.9570	8.7241	-0.2020	0.5566	-0.0309	0.3546	1.65E-01	2.45E-03	8.32E-01	1.14E-01	4.23E-01	1.40E-01	7.31E-01	4.26E-01
220131_at	FXYD7	5.2892	6.8659	5.1339	5.6441	1.0435	-0.6885	-0.5332	0.3549	4.92E-03	3.73E-02	5.08E-02	3.11E-01	6.21E-02	5.35E-01	6.55E-01	6.42E-01
203215_s_at	MYO6	7.0717	8.1329	7.2197	8.0584	0.6350	-0.2783	0.2037	0.3567	4.31E-04	4.20E-02	8.01E-02	1.57E-02	5.58E-01	6.55E-01	2.52E-01	
226573_at	DIRAS1	6.9054	7.3099	6.6242	7.2645	0.5224	-0.1633	0.1179	0.3592	2.77E-03	2.35E-01	3.89E-01	8.52E-02	4.40E-02	9.47E-01	6.55E-01	3.71E-01
224746_at	KIAA1522	6.6067	7.3869	6.3813	6.9660	0.6824	-0.3231	-0.0977	0.3593	4.96E-04	3.34E-02	4.81E-01	9.09E-02	1.73E-02	5.13E-01	6.58E-01	3.81E-01
1552698_at	MGC16703	6.2599	6.5498	6.2834	6.8204	0.3134	0.0470	0.0236	0.3605	7.36E-04	4.72E-01	7.30E-01	4.76E-03	2.14E-02	9.67E-01	7.04E-01	8.45E-02
209462_at	APLP1	8.2557	9.0853	7.4548	8.6163	0.9555	-0.6349	0.1659	0.3606	2.27E-03	2.50E-02	5.15E-01	3.26E-01	3.97E-02	4.51E-01	6.60E-01	6.54E-01
49878_at	PEX1B	9.7317	10.2890	9.3437	10.0980	0.6558	-0.2895	0.0985	0.3663	1.90E-04	2.55E-02	3.94E-01	4.56E-02	9.80E-03	4.55E-01	6.55E-01	2.77E-01
201622_at	SND1	11.3673	11.7731	11.2294	11.7356	0.4560	-0.0877	0.0502	0.3683	8.71E-04	3.72E-01	6.21E-01	2.83E-02	2.32E-02	9.67E-01	6.83E-01	2.16E-01
228959_at	Hs.296031	7.5367	8.3698	7.1421	7.9059	0.7985	-0.4293	-0.0347	0.3692	5.66E-03	8.42E-02	8.86E-01	2.97E-01	6.72E-02	7.16E-01	7.41E-01	6.31E-01
202662_s_at	ITPR2	6.3335	6.7971	6.0994	6.7051	0.5347	-0.1631	0.0710	0.3716	5.62E-03	2.99E-01	6.59E-01	1.28E-01	6.70E-02	9.67E-01	6.92E-01	4.54E-01
219986_s_at	AC																

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
226012_at	ANKRD11	8.3112	8.8375	8.1403	8.7628	0.5744	-0.1228	0.0481	0.4516	1.67E-03	3.6E-01	7.34E-01	4.78E-02	3.39E-02	9.67E-01	7.05E-01	2.81E-01
227720_at	ANKRD13B	6.5975	6.9089	6.5036	7.0499	0.4288	0.0235	0.1175	0.4523	4.32E-03	8.40E-01	7.38E-01	2.19E-02	5.78E-02	9.67E-01	6.55E-01	1.90E-01
209193_at	PIM1	7.2043	7.6413	6.9418	7.6624	0.5788	-0.1207	0.1418	0.4581	3.96E-03	4.44E-01	3.78E-01	6.53E-02	5.45E-02	9.67E-01	6.55E-01	3.23E-01
1557122_s_at	GABRB2	6.0090	6.3475	5.4795	6.4679	0.6635	-0.2045	0.3250	0.4589	5.36E-03	2.90E-01	6.95E-02	6.98E-02	6.50E-02	9.67E-01	6.55E-01	3.35E-01
224524_s_at	ASB3	8.7043	8.5311	9.1070	9.1639	-0.0851	0.5177	0.1151	0.4596	7.00E-01	6.28E-03	4.64E-01	6.15E-02	7.21E-01	2.38E-01	6.58E-01	3.16E-01
234360_at	234360_at	6.1836	6.3335	6.5251	6.6474	0.1361	0.3277	-0.0138	0.4638	2.04E-01	9.29E-03	8.99E-01	1.44E-02	4.63E-01	2.86E-01	7.44E-01	1.53E-01
204321_at	NEO1	6.6091	7.5246	6.3100	7.0737	0.8396	-0.3750	-0.0759	0.4647	3.24E-05	7.81E-03	5.23E-01	2.02E-02	3.90E-03	2.60E-01	6.61E-01	1.82E-01
209553_at	VPS8	8.0904	8.3930	8.2266	8.5591	0.3176	0.1511	0.0149	0.4687	5.51E-04	3.49E-02	8.23E-01	8.74E-04	1.85E-02	5.22E-01	7.28E-01	3.35E-02
230311_s_at	PRDM6	6.1733	6.4294	6.2661	6.6446	0.3172	0.1540	0.0612	0.4712	3.26E-04	2.33E-02	3.05E-01	3.35E-04	1.30E-02	4.30E-01	6.55E-01	2.14E-02
200705_s_at	EEF1B2	12.3435	12.3827	13.0646	12.8192	-0.1031	0.5787	-0.1423	0.4756	5.04E-01	3.59E-03	3.67E-01	5.39E-02	6.57E-01	1.71E-01	6.55E-01	2.97E-01
229377_at	GTRP1	6.8838	7.3944	6.2586	7.3603	0.8061	-0.3296	0.2956	0.4765	7.44E-03	1.94E-01	2.27E-01	1.74E-01	7.81E-02	9.21E-01	6.55E-01	5.15E-01
218231_at	NAGK	8.7290	9.2516	8.4957	9.2090	0.6180	-0.1380	0.0953	0.4800	9.20E-03	4.80E-01	6.39E-01	1.21E-01	8.98E-02	9.67E-01	6.86E-01	4.41E-01
241505_at	Hs.560957	6.4016	6.5651	6.9920	6.8837	0.0276	0.4545	-0.1359	0.4820	8.42E-01	8.00E-03	3.40E-01	3.43E-02	7.56E-01	2.65E-01	6.55E-01	2.40E-01
205384_at	FXYP1	5.7365	6.2227	5.5869	6.2196	0.5594	-0.0763	0.0733	0.4831	4.45E-03	6.02E-01	6.50E-01	5.92E-02	5.87E-02	9.67E-01	6.89E-01	3.09E-01
218168_s_at	CABC1	8.6929	8.4554	9.2920	9.1795	-0.1750	0.6616	0.0625	0.4866	5.12E-03	2.19E-02	2.06E-01	6.44E-05	6.38E-02	2.98E-03	6.55E-01	1.00E-02
219170_at	FSD1	8.3987	9.0496	8.3267	8.8859	0.6050	-0.1178	-0.0459	0.4872	1.50E-03	4.04E-01	7.55E-01	4.14E-02	3.22E-02	9.67E-01	7.11E-01	2.63E-01
241658_at	Hs.408497	6.0884	6.4873	5.7318	6.5757	0.6215	-0.1341	0.2225	0.4874	6.36E-03	4.65E-01	2.25E-01	7.58E-02	7.18E-02	9.67E-01	6.55E-01	3.50E-01
238423_at	SYTL3	5.7717	6.5696	5.7131	6.2618	0.6732	-0.1832	-0.1246	0.4900	1.25E-04	1.16E-01	2.59E-01	9.64E-03	7.49E-03	7.99E-01	6.55E-01	1.23E-01
206843_at	CRYBA4	5.7322	7.3588	5.2794	6.2223	1.4732	-0.9831	-0.5303	0.4901	1.24E-03	1.30E-02	9.58E-02	2.52E-01	2.89E-02	3.28E-01	6.55E-01	5.96E-01
213329_at	SRGAP2	7.9845	8.5574	7.4967	8.4765	0.7763	-0.2843	0.2034	0.4920	8.55E-04	1.07E-01	2.18E-01	5.15E-02	2.32E-02	7.80E-01	6.55E-01	2.92E-01
210036_s_at	KCNH2	8.3240	9.1548	7.7432	8.8175	0.9526	-0.4590	0.1218	0.4936	1.78E-03	6.41E-02	6.06E-01	1.62E-01	3.50E-02	6.43E-01	6.80E-01	5.02E-01
208304_at	CCR3	5.8437	6.2647	5.4266	6.3375	0.6660	-0.1721	0.2449	0.4938	5.11E-03	3.67E-01	1.91E-01	7.62E-02	6.38E-02	9.67E-01	6.55E-01	3.51E-01
219474_at	C3orf52	4.8960	6.3475	4.1648	5.3938	1.3402	-0.8424	-0.1113	0.4978	5.87E-04	1.00E-02	6.93E-01	2.32E-01	1.89E-02	2.99E-01	6.97E-01	5.78E-01
1554113_a_at	SLC4A8	5.0895	6.7289	4.6955	5.5885	1.2662	-0.7672	-0.3732	0.4990	4.65E-04	1.02E-02	1.19E-01	1.37E-01	1.66E-02	2.99E-01	6.55E-01	4.67E-01
231823_s_at	SH3PXD2B	5.9761	6.6871	5.6392	6.4785	0.7752	-0.2728	0.0641	0.5024	1.54E-03	1.50E-01	7.34E-01	8.71E-02	3.27E-02	8.69E-01	7.05E-01	3.74E-01
240032_at	Hs.572495	5.6777	6.1682	5.7144	6.1865	0.4813	0.0275	-0.0093	0.5088	3.37E-03	8.27E-01	9.45E-01	2.39E-02	4.92E-02	9.67E-01	7.53E-01	1.98E-01
61734_at	RCN3	8.3219	9.4782	7.5346	8.8307	1.2262	-0.7174	0.0699	0.5088	1.08E-03	2.20E-02	8.05E-01	2.26E-01	2.64E-02	4.18E-01	7.24E-01	5.71E-01
232358_at	KIAA1328	5.7840	6.1971	5.9558	6.2936	0.3755	0.1341	-0.0377	0.5096	5.56E-03	2.28E-01	7.39E-01	1.08E-02	6.67E-02	9.45E-01	7.06E-01	1.32E-01
226614_s_at	FAM167A	5.3789	5.8298	5.3061	5.8890	0.5169	-0.0067	0.0660	0.5102	8.78E-04	9.51E-01	5.65E-01	1.12E-02	2.32E-02	9.67E-01	6.71E-01	1.34E-01
210736_x_at	DTNA	5.4226	5.8016	5.6597	5.9335	0.3264	0.1845	-0.0526	0.5108	6.67E-03	7.89E-02	6.02E-01	5.84E-03	7.36E-02	6.97E-01	6.79E-01	9.50E-02
230450_at	Hs.648103	5.5644	6.4937	5.3931	6.0762	0.8062	-0.2944	-0.1231	0.5118	7.64E-03	2.43E-01	6.31E-01	1.80E-01	9.07E-02	9.54E-01	6.84E-01	5.22E-01
203480_s_at	OTUD4	8.5221	8.7960	8.9485	9.0351	1.803	0.3327	-0.0937	0.5130	8.89E-02	6.51E-03	3.51E-01	4.99E-03	3.18E-01	2.41E-01	6.55E-01	8.70E-02
219702_at	PLAC1	7.9450	10.0771	6.9216	8.4590	1.8348	-1.3208	-0.2973	0.5140	3.49E-04	3.74E-03	4.14E-01	3.24E-01	1.59E-02	1.75E-01	6.55E-01	6.52E-01
218632_at	HECTD3	8.3014	8.8177	8.3428	8.8167	0.4951	0.0202	-0.0212	0.5153	4.30E-03	8.80E-01	8.82E-01	3.01E-02	5.77E-02	9.67E-01	7.40E-01	2.23E-01
201841_s_at	HSPB1	11.2715	12.2677	10.8309	11.7873	0.9763	-0.4605	-0.0199	0.5158	8.73E-03	1.50E-01	9.50E-01	2.74E-01	8.67E-02	8.69E-01	7.54E-01	6.11E-01
1589521_s_at	Hs.667944	5.4449	6.2099	5.3653	5.9612	0.6804	-0.1642	-0.0845	0.5163	2.12E-03	3.31E-01	6.26E-01	6.01E-02	3.83E-02	9.67E-01	6.83E-01	3.11E-01
205382_s_at	CFD	8.5023	9.5350	8.2061	9.0199	0.9232	-0.4057	-0.1094	0.5176	9.04E-03	1.79E-01	7.19E-01	2.47E-01	8.90E-02	9.13E-01	7.02E-01	5.92E-01
223000_s_at	F11R	9.0549	10.3348	8.7240	9.5739	1.0649	-0.5459	-0.2150	0.5190	2.80E-03	6.66E-02	4.44E-01	2.06E-01	4.43E-02	6.50E-01	6.56E-01	5.53E-01
227854_at	Hs.657368	5.9885	6.3269	6.0753	6.5093	0.3862	0.1346	0.0478	0.5208	5.19E-03	2.33E-01	6.77E-01	1.03E-02	6.44E-02	9.47E-01	6.96E-01	1.28E-01
226494_at	KIAA1543	5.7207	6.4455	5.7121	6.2419	0.6273	-0.1061	-0.0975	0.5212	6.05E-04	4.07E-01	4.56E-01	1.82E-02	1.92E-02	9.67E-01	6.58E-01	1.73E-01
226603_at	SAMD9L	9.0726	8.3212	9.9756	9.5961	-0.5655	1.0890	0.1859	0.5235	1.57E-02	2.86E-04	3.58E-01	8.83E-02	1.22E-01	4.98E-02	6.55E-01	3.77E-01
244447_at	Hs.666767	6.1653	7.0192	5.8022	6.6902	0.8709	-0.3460	0.0170	0.5249	9.98E-04	8.99E-02	9.32E-01	7.08E-02	2.48E-02	7.32E-01	7.51E-01	3.81E-01
203857_s_at	PDI5A	10.4466	10.8258	10.5327	10.9717	0.4091	0.1161	0.0299	0.5252	1.79E-04	1.18E-01	6.82E-01	9.48E-04	9.59E-03	8.05E-01	6.96E-01	3.06E-02
216032_s_at	ERIC3C	11.5850	11.6982	11.9208	12.1103	0.1513	0.3739	0.0381	0.5252	1.10E-01	1.77E-03	6.81E-01	3.22E-03	3.50E-01	1.24E-01	6.96E-01	6.72E-02
229948_at	Hs.128387	5.7588	5.9817	6.0864	6.2850	0.2108	0.3155	-0.0122	0.5262	3.94E-02	5.71E-03	8.99E-01	3.88E-03	2.04E-01	2.27E-01	7.44E-01	7.52E-02
227109_at	CYP2R1	9.0909	9.7286	9.1315	9.6181	0.5621	-0.0349	-0.0756	0.5272	1.68E-05	6.19E-01	2.91E-01	5.26E-04	2.58E-03	9.67E-01	6.55E-01	2.62E-02
219172_at	UBTD1	6.0290	6.6301	5.9400	6.5602	0.6107	-0.0795	0.0096	0.5312	1.88E-03	5.86E-01	9.50E-01	6.60E-02	3.59E-02	9.67E-01	7.54E-01	2.44E-01
203851_at	IGFBP6	6.0550	7.1755	5.4698	6.5864	1.1185	-0.5872	-0.0019	0.5314	1.99E-04	1.16E-02	9.92E-01	9.32E-02	1.01E-02	3.11E-01	7.63E-01	3.86E-01
240270_x_at	LOC283728	6.3347	6.6596	6.0887	6.8664	0.5513	-0.0195	0.2264	0.5317	9.63E-03	9.10E-01	1.94E-01	4.64E-02	9.19E-02	9.67E-01	6.55E-01	2.79E-01
228783_at	BVES	8.3042	8.6112	8.1850	8.8363	0.4792	0.0529	0.1721	0.5321	2.25E-03	6.52E-01	1.37E-01	6.82E-03	3.96E-02	9.67E-01	6.55E-01	1.04E-01
215111_x_at	CCPG1	7.8508	8.3212	7.4882	8.3854	0.6838	-0.1492	0.2134	0.5346	3.12E-03	4.06E-01	2.32E-01	5.11E-02	4.69E-02	9.67E-01	6.55E-01	2.91E-01
230430_at	ENTPD2	5.8885	6.7729	5.8711	6.4242	0.7188	-0.1830	-0.1656	0.5358	1.24E-04	1.37E-01	1.49E-01	6.43E-03	7.49E-03	8.48E-01	6.55E-01	1.00E-01
243308_at	Hs.660925	5.4340	5.5388	5.8500	5.9814	0.1181	0.4293	0.0133	0.5474	3.89E-01	9.35E-03	9.26E-01	2.32E-02	6.02E-01	2.87E-01	7.50E-01	1.95E-01
213588_x_at	RPL14	12.8359	13.1588	13.3786	13.3837	0.1640	0.3838	-0.1589	0.5478	1.86E-01	8.51E-03	1.79E-01	7.03E-03	4.44E-01	2.74E-01	6.55E-01	1.04E-01
1553997_a_at	ASPHD1	6.3465	7.0428	6.2179	6.8978	0.6881	-0.1369	-0.0082	0.5512	5.26E-05	1.88E-01	9.38E-01	5.02E-03	4.69E-03	9.15E-01	7.52E-01	8.73E-02
231375_at</																	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
212473_s_at	MICAL2	5.5557	7.2373	5.3639	6.1901	1.2539	-0.6195	-0.4277	0.6345	5.86E-03	1.10E-01	2.42E-01	2.22E-01	6.86E-02	7.85E-01	6.55E-01	5.67E-01
208886_at	HIF0	7.9791	9.3790	7.0131	8.6139	1.5003	-0.8655	0.1004	0.6347	9.55E-03	9.00E-02	8.40E-01	3.79E-01	9.04E-02	7.32E-01	7.32E-01	6.84E-01
1560633_a_at	D2152089E	6.1244	6.2241	6.6753	6.7628	0.0936	0.5448	-0.0061	0.6383	5.78E-01	8.37E-03	9.73E-01	3.04E-02	6.83E-01	2.71E-01	7.60E-01	2.25E-01
217807_s_at	GLTSCR2	12.4116	12.7553	12.9426	13.0533	0.2272	0.4145	-0.1165	0.6417	9.78E-02	8.27E-03	3.74E-01	6.36E-03	3.32E-01	2.69E-01	6.55E-01	9.95E-02
234359_at	Hs.637893	6.9261	7.4376	6.9719	7.5703	0.5550	0.0892	0.0434	0.6442	5.80E-03	5.78E-01	7.97E-01	2.34E-02	6.81E-02	9.67E-01	7.23E-01	1.96E-01
229786_at	Hs.423336	5.5434	6.0113	5.6777	6.1881	0.4891	0.1556	0.0212	0.6447	9.19E-03	3.21E-01	8.96E-01	1.97E-02	8.98E-02	9.67E-01	7.43E-01	1.80E-01
238099_at	Hs.596208	6.2194	6.7299	5.9312	6.8657	0.7225	-0.0762	0.2120	0.6462	9.08E-03	7.35E-01	3.61E-01	7.04E-02	8.92E-02	9.67E-01	6.55E-01	3.37E-01
239515_at	Hs.668554	5.3607	6.0788	5.5382	6.0070	0.5934	0.0528	-0.1247	0.6463	6.69E-03	7.62E-01	4.94E-01	3.05E-02	7.36E-02	9.67E-01	6.58E-01	2.25E-01
202974_at	MPP1	6.1481	6.9102	5.9254	6.7950	0.8159	-0.1690	0.0538	0.6470	2.16E-04	2.49E-01	7.19E-01	1.32E-02	1.04E-02	9.57E-01	7.02E-01	1.46E-01
206424_at	CYP26A1	5.4816	6.8608	5.0246	6.1305	1.2426	-0.5936	-0.1367	0.6489	8.34E-03	1.43E-01	7.34E-01	2.72E-01	8.42E-02	8.57E-01	7.05E-01	6.09E-01
227868_at	LOC154761	5.9421	6.8559	5.5201	6.5917	0.9927	-0.3431	0.0789	0.6496	3.27E-03	2.04E-01	7.73E-01	1.20E-01	4.84E-02	9.30E-01	7.17E-01	4.39E-01
242651_at	Hs.147030	5.6435	6.2107	5.5750	6.3008	0.6465	0.0108	0.0793	0.6573	5.78E-03	5.53E-01	6.85E-01	3.90E-02	6.81E-02	9.67E-01	6.96E-01	2.55E-01
213497_at	ABTB2	7.9418	8.7527	7.6553	8.6001	0.8779	-0.2196	0.0669	0.6583	5.46E-04	2.24E-01	7.15E-01	2.99E-02	1.84E-02	9.42E-01	7.02E-01	2.23E-01
203221_at	TLT1	8.0396	8.5383	7.8290	8.6987	0.6842	-0.0251	0.1855	0.6591	8.31E-04	8.61E-01	1.99E-01	7.82E-03	2.29E-02	9.67E-01	6.55E-01	1.10E-01
225629_s_at	ZBTB4	7.3131	7.6376	7.9034	7.9750	0.1981	0.4638	-0.1264	0.6619	8.31E-02	1.36E-03	2.33E-01	1.40E-03	3.05E-01	1.10E-01	6.55E-01	4.27E-02
205011_at	VWA5A	5.8002	6.4467	5.6832	6.4622	0.7128	-0.0508	0.0663	0.6620	1.87E-03	7.64E-01	7.11E-01	2.65E-02	3.59E-02	9.67E-01	7.01E-01	2.09E-01
223041_at	CD99L2	10.2126	10.9955	9.8936	10.8793	0.8843	-0.2176	0.1014	0.6667	3.22E-04	1.99E-01	5.51E-01	2.00E-02	1.29E-02	9.25E-01	6.68E-01	1.81E-01
204747_at	IFIT3	6.2896	6.8386	5.8662	6.9569	0.8199	-0.1526	0.2709	0.6673	9.86E-03	5.59E-01	3.08E-01	9.48E-02	9.34E-02	9.67E-01	6.55E-01	3.88E-01
226981_at	MLL	8.2910	8.6605	8.2719	8.9593	0.5285	0.1399	0.1589	0.6683	2.97E-04	1.66E-01	8.49E-02	3.85E-04	1.24E-02	8.89E-01	6.55E-01	2.33E-02
205181_at	ZNF193	7.3750	7.3656	7.6405	8.0445	0.1973	0.4722	0.2067	0.6695	1.62E-01	5.33E-03	1.13E-01	3.56E-03	4.18E-01	2.15E-01	6.55E-01	7.09E-02
212566_at	MAP4	10.0439	10.4179	10.0850	10.7153	0.5022	0.1693	0.1281	0.6714	5.76E-03	2.56E-01	3.90E-01	9.79E-03	6.80E-02	9.64E-01	6.55E-01	1.24E-01
223929_s_at	LOC100287878	6.0166	6.5621	5.8292	6.6902	0.7033	-0.0297	0.1577	0.6736	9.94E-03	8.94E-01	4.98E-01	6.46E-02	9.38E-02	9.67E-01	6.58E-01	3.22E-01
205158_at	RNASE4	4.9330	6.2662	3.6606	5.6070	1.6398	-0.9658	0.3066	0.6740	8.25E-05	3.19E-03	2.25E-01	7.53E-02	5.96E-03	1.57E-01	6.55E-01	3.49E-01
228797_at	Hs.655270	8.2567	9.1204	8.3589	8.9308	0.7178	-0.0437	-0.1459	0.6742	7.16E-03	8.38E-01	5.14E-01	5.64E-02	7.64E-02	9.67E-01	6.59E-01	3.04E-01
231270_at	CA13	5.4413	6.4102	5.2362	6.1156	0.9241	-0.2499	-0.0448	0.6743	2.25E-03	2.84E-01	8.52E-01	7.38E-02	3.96E-02	9.67E-01	7.35E-01	3.45E-01
218338_at	PHC	6.9879	7.6517	6.8140	7.6646	0.7571	-0.0805	0.0934	0.6767	5.09E-03	7.05E-01	6.77E-01	5.74E-02	6.37E-02	9.67E-01	6.96E-01	3.07E-01
204257_at	FADS3	7.5617	8.2840	7.0443	8.2410	0.9595	-0.2802	0.2373	0.6793	3.23E-04	1.35E-01	1.77E-01	1.72E-02	1.30E-02	8.43E-01	6.55E-01	1.68E-01
236004_at	Hs.720252	7.7442	7.8807	8.0503	8.4239	0.2551	0.4247	0.1185	0.6798	1.57E-02	7.97E-04	1.81E-01	3.45E-04	1.22E-01	7.97E-02	6.55E-01	2.14E-02
226157_at	TFDP2	9.2595	9.1856	9.8219	9.9410	0.0226	0.6589	0.0965	0.6815	8.96E-01	3.52E-03	5.96E-01	2.50E-02	7.66E-01	1.69E-01	6.78E-01	2.03E-01
204340_at	TMEM187	8.6527	9.5497	8.2669	9.3356	0.9829	-0.2999	0.0858	0.6830	2.94E-04	1.16E-01	6.47E-01	2.80E-02	1.24E-02	8.01E-01	6.88E-01	2.15E-01
238417_at	PGM2L1	5.6737	6.8620	5.6834	6.3568	0.9309	-0.2478	-0.2574	0.6831	7.74E-03	3.88E-01	3.76E-01	1.17E-01	8.01E-02	9.67E-01	6.55E-01	4.31E-01
1557117_at	Hs.594697	5.2869	5.8038	5.6469	5.9720	0.4210	0.2641	-0.0959	0.6850	4.66E-03	4.38E-02	4.27E-01	2.89E-03	5.99E-02	6.55E-01	6.55E-01	6.43E-02
215756_at	LOC730227	5.1909	5.9886	4.9665	5.8761	0.8536	-0.1685	0.0560	0.6852	1.10E-04	2.31E-01	6.95E-01	7.84E-03	7.02E-03	9.47E-01	6.98E-01	1.10E-01
90610_at	LRCR4	8.7772	9.4129	8.3087	9.4709	0.8989	-0.2052	0.2633	0.6937	7.44E-03	4.53E-01	3.43E-01	9.75E-02	7.81E-02	9.67E-01	6.55E-01	3.93E-01
225636_at	STAT2	8.4266	9.1730	8.8131	9.1204	0.5269	0.1669	-0.2195	0.6938	3.51E-03	2.46E-01	1.04E-01	3.42E-03	5.02E-02	9.56E-01	6.55E-01	6.94E-02
201425_at	ALDH2	5.8344	6.6787	5.1008	6.5296	1.1365	-0.4413	0.2922	0.6952	4.03E-03	1.71E-01	3.54E-01	1.37E-01	5.50E-02	8.94E-01	6.55E-01	4.66E-01
226648_at	HIF1AN	7.7374	8.1229	7.7508	8.4349	0.5348	0.1627	0.1493	0.6976	1.43E-03	2.02E-01	2.26E-01	2.48E-03	3.12E-02	9.26E-01	6.55E-01	5.81E-02
219205_at	SRP	6.5893	7.4330	6.3772	7.2881	0.8773	-0.1784	0.0336	0.6989	3.02E-03	4.35E-01	8.88E-01	6.51E-02	4.63E-02	9.67E-01	7.41E-01	3.23E-01
226372_at	CHST11	7.9663	8.8134	7.7308	8.6712	0.8938	-0.1889	0.0467	0.7049	8.90E-05	1.91E-01	7.48E-01	5.57E-03	6.27E-03	9.17E-01	7.08E-01	1.08E-01
220288_at	MYO15A	5.3335	6.2644	4.9753	6.0392	0.9975	-0.2917	0.0665	0.7058	2.68E-04	1.26E-01	7.24E-01	5.52E-02	1.18E-02	8.20E-01	7.03E-01	2.04E-01
220584_at	FLJ22184	6.4277	7.1582	6.6008	7.1368	0.6332	0.0759	-0.0973	0.7091	5.32E-03	6.72E-01	6.05E-01	2.42E-02	6.47E-02	9.67E-01	6.80E-01	1.99E-01
205781_at	C16orf7	6.7374	7.3722	6.5759	7.4481	0.7535	-0.0428	0.1187	0.7107	7.60E-03	8.50E-01	6.19E-01	6.02E-02	7.91E-02	9.67E-01	6.82E-01	3.11E-01
227502_at	Hs.723243	7.2802	7.3749	7.6422	7.8226	0.2226	0.4989	0.1280	0.7125	1.56E-01	7.84E-03	4.06E-01	8.64E-03	4.11E-01	2.61E-01	6.55E-01	1.16E-01
219284_at	HSPBAP1	7.9944	7.6392	8.6621	8.7086	-0.1544	0.8686	0.2009	0.7142	5.44E-01	6.24E-03	4.45E-01	7.79E-02	6.72E-01	2.38E-01	6.56E-01	3.54E-01
1558290_a_at	PVT1	8.6034	8.9453	9.4506	9.3178	0.1045	0.6099	-0.2374	0.7143	4.98E-01	2.59E-03	1.11E-01	5.18E-03	6.54E-01	1.42E-01	6.55E-01	8.86E-02
224606_at	KLF6	10.9358	11.4758	10.8921	11.6554	0.6516	0.0680	0.1117	0.7196	1.88E-03	6.62E-01	4.90E-01	1.09E-02	3.59E-02	9.67E-01	6.58E-01	1.32E-01
222651_s_at	TRPS1	7.7079	8.0111	7.6221	8.4279	0.5545	0.1655	0.2513	0.7200	3.51E-03	2.72E-01	7.14E-02	2.96E-03	5.02E-02	9.67E-01	6.55E-01	6.48E-02
1556694_a_at	Hs.468488	5.1752	5.3174	5.5483	5.8980	0.2460	0.4768	0.1038	0.7228	1.23E-01	9.22E-03	5.05E-01	8.88E-03	3.67E-01	2.85E-01	6.58E-01	1.17E-01
215331_at	MYH15	5.4304	6.2967	5.5462	6.1534	0.7368	-0.0137	-0.1296	0.7231	4.41E-03	9.48E-01	5.39E-01	3.53E-02	5.85E-02	9.67E-01	6.65E-01	2.42E-01
213313_at	RBGAP1	8.9988	9.8189	9.3755	9.7226	0.5836	0.1402	-0.2365	0.7238	3.17E-03	3.63E-01	1.08E-01	4.45E-03	4.73E-02	9.67E-01	6.55E-01	8.17E-02
206118_at	STAT4	5.3593	6.2322	5.1454	6.0837	0.9056	-0.1812	0.0327	0.7244	1.24E-03	3.79E-01	8.79E-01	3.87E-02	2.89E-02	9.67E-01	7.39E-01	2.54E-01
205995_x_at	IQCB1	9.8548	9.7008	10.6060	10.5797	-0.0902	0.8150	0.0639	0.7248	6.65E-01	2.89E-03	7.71E-01	4.22E-02	7.11E-01	1.48E-01	7.16E-01	2.66E-01
241367_at	TEX19	11.3638	11.9676	11.7655	12.0892	0.4637	0.2617	-0.1400	0.7254	2.71E-03	4.64E-02	2.37E-01	1.58E-03	4.39E-02	5.75E-01	6.55E-01	4.52E-02
205807_s_at	TUFT1	6.2997	7.5587	5.7987	7.0277	1.2440	-0.5160	-0.0150	0.7280	2.72E-04	4.06E-02	9.49E-01	5.47E-02	1.19E-02	5.50E-01	7.54E-01	3.00E-01
218258_at	POLR1D	10.5417	10.9059	11.4023	11.2701	0.1160	0.6124	-0.2482	0.7284	4.96E-01	4.60E-03	1.36E-01	8.81E-03	6.53E-01	1.97E-01	6.55E-01	1.17E-01

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
230039_at	HS.116828	5.7944	6.8129	5.8204	6.6049	0.9015	-0.0910	-0.1170	0.8105	5.04E-04	6.07E-01	5.25E-01	1.16E-02	1.74E-02	9.67E-01	6.62E-01	1.37E-01
230616_at	LAMB2L	5.8294	6.5251	5.3844	6.6430	0.9771	-0.1636	0.2815	0.8136	1.38E-03	4.65E-01	2.06E-01	2.28E-02	3.07E-02	9.67E-01	6.55E-01	1.93E-01
233642_s_at	HEATR5B	9.0925	9.6247	8.8625	9.9070	0.7884	0.0262	0.2562	0.8145	2.71E-04	8.53E-01	5.36E-02	9.47E-04	1.19E-02	9.67E-01	6.55E-01	3.48E-02
234665_x_at	HHLA3	7.2646	8.4283	7.5752	8.0803	0.8344	-0.0187	-0.3293	0.8157	5.12E-03	9.36E-01	1.57E-01	2.56E-02	6.38E-02	9.67E-01	6.55E-01	2.06E-01
213309_at	PLCL2	8.9381	9.3794	8.7748	9.7558	0.7112	0.1066	0.2698	0.8177	4.48E-03	5.87E-01	1.65E-01	1.12E-02	5.90E-02	9.67E-01	6.55E-01	1.34E-01
218523_at	LHPP	6.6604	7.4914	6.7679	7.4790	0.7710	0.0476	-0.0599	0.8186	8.47E-04	7.69E-01	7.27E-01	8.11E-03	2.32E-02	9.67E-01	7.04E-01	1.12E-01
230605_at	Hs.157818	8.5783	9.4816	8.4619	9.3999	0.9207	-0.0990	0.0174	0.8216	8.28E-04	6.10E-01	9.32E-01	1.91E-02	2.29E-02	9.67E-01	7.51E-01	1.78E-01
232642_at	VVA5B2	6.5878	7.0249	6.1899	7.4121	0.8297	-0.0054	0.3925	0.8243	8.84E-03	9.83E-01	1.19E-01	3.22E-02	8.76E-02	9.67E-01	6.55E-01	2.32E-01
226291_at	ALS2	7.5724	8.3112	7.9083	8.3987	0.6146	0.2117	-0.1242	0.8263	3.24E-03	2.04E-01	4.55E-01	6.07E-03	4.82E-02	9.67E-01	6.58E-01	9.27E-02
236856_x_at	Hs.432315	5.0655	5.8248	5.6798	5.8922	0.4859	0.3409	-0.2734	0.8268	8.38E-03	4.28E-02	5.07E-02	1.18E-03	8.45E-02	5.61E-01	6.55E-01	3.92E-02
1557830_s_at	LOC100290563	6.0390	6.7958	6.0992	6.8699	0.7638	0.0672	0.0069	0.8310	2.52E-04	6.21E-01	9.61E-01	2.90E-03	1.14E-02	9.67E-01	7.57E-01	6.43E-02
221500_s_at	STX16	9.7617	9.9086	10.2637	10.5949	0.2390	0.5941	0.0922	0.8331	7.75E-02	7.88E-04	4.75E-01	1.37E-03	2.94E-01	7.94E-02	6.58E-01	4.23E-02
200782_at	ANXA5	9.3459	10.6957	9.0068	10.1808	1.2619	-0.4270	-0.0879	0.8349	2.12E-03	1.84E-01	7.86E-01	9.58E-02	3.83E-02	9.15E-01	7.20E-01	3.90E-01
203476_at	TPBG	8.5857	9.2032	8.5931	9.4234	0.7239	0.1138	0.1064	0.8377	3.93E-03	5.60E-01	6.02E-01	1.65E-02	5.45E-02	9.67E-01	6.80E-01	1.65E-01
235483_at	Hs.598169	6.0458	6.8470	5.8240	6.8852	0.9312	-0.0918	0.1300	0.8394	1.23E-04	5.43E-01	4.02E-01	3.74E-03	7.49E-03	9.67E-01	6.55E-01	7.33E-02
241196_at	Hs.157791	6.1095	7.1912	5.8684	6.9516	1.0825	-0.2404	0.0007	0.8421	1.01E-03	3.17E-01	9.98E-01	3.85E-02	2.52E-02	9.67E-01	6.74E-01	2.54E-01
211458_s_at	GABARAPL3	6.9528	8.4446	7.1925	7.7960	1.0476	-0.2044	-0.4442	0.8432	5.27E-03	4.94E-01	1.26E-01	5.12E-02	6.47E-02	9.67E-01	6.55E-01	2.91E-01
202074_s_at	OPTN	8.4394	9.3560	7.4179	9.2860	1.3924	-0.5458	0.4758	0.8466	8.35E-04	8.64E-02	9.27E-02	4.31E-02	2.29E-02	7.22E-01	6.55E-01	2.69E-01
225771_at	AP1G1	8.4880	9.6211	8.8630	9.3434	0.8068	0.0487	-0.3264	0.8554	1.88E-03	7.99E-01	7.56E-02	5.37E-03	3.59E-02	9.67E-01	6.55E-01	9.00E-02
229930_at	LOC100134361	5.3535	6.6490	5.4142	6.2094	1.0454	-0.1894	-0.2502	0.8559	1.14E-04	2.71E-01	1.26E-01	3.29E-03	7.08E-03	9.67E-01	6.55E-01	6.78E-02
223424_s_at	ZSCAN21	8.2580	9.0747	8.4695	9.1187	0.7330	0.1277	-0.0837	0.8607	3.63E-04	4.14E-01	6.05E-01	4.46E-03	2.29E-02	9.67E-01	6.80E-01	8.17E-02
1553703_at	ZNF791	9.9778	10.6395	10.1165	10.8412	0.6932	0.1702	0.0315	0.8634	9.66E-03	4.43E-01	8.92E-01	2.63E-02	9.21E-02	9.67E-01	7.42E-01	2.08E-01
202761_s_at	SYNE2	5.6920	7.5709	5.3308	6.5558	1.5519	-0.6881	-0.3270	0.8638	1.10E-03	6.63E-02	3.50E-01	1.01E-01	2.68E-02	6.49E-01	6.55E-01	4.00E-01
236097_at	Hs.98626	6.7042	7.0479	6.9077	7.5681	0.5021	0.3619	0.1584	0.8640	3.04E-03	1.78E-02	2.24E-01	9.53E-04	4.64E-02	3.75E-01	6.55E-01	3.48E-02
209350_s_at	GPS2	9.0512	9.9333	9.0278	9.9162	0.8852	-0.0202	0.0032	0.8650	4.50E-05	8.71E-01	9.81E-01	1.42E-03	4.44E-03	9.67E-01	7.61E-01	4.29E-02
230224_at	ZCCCH18	7.3714	7.6722	7.9023	8.2371	0.3178	0.5479	0.0170	0.8657	4.03E-02	2.57E-03	9.07E-01	2.44E-03	2.06E-01	1.42E-01	7.45E-01	5.75E-02
241823_at	Hs.552162	5.5671	6.2124	5.8122	6.4339	0.6335	0.2333	-0.0118	0.8668	7.92E-04	1.02E-01	9.33E-01	1.96E-03	2.24E-02	7.64E-01	7.51E-01	5.14E-02
229446_at	Hs.98470	5.9401	7.0871	5.7569	6.8074	1.0987	-0.2315	-0.0482	0.8673	9.59E-04	3.37E-01	8.47E-01	3.48E-02	2.42E-02	9.67E-01	7.34E-01	2.41E-01
237203_at	Hs.288478	6.6450	8.0746	5.5596	7.5131	1.6916	-0.8234	0.2620	0.8681	3.95E-03	9.42E-02	5.83E-01	2.17E-01	5.45E-02	7.48E-01	6.76E-01	5.63E-01
217892_s_at	LIMA1	6.2370	7.4034	5.5119	7.1059	1.3802	-0.5113	0.2137	0.8689	3.38E-03	1.78E-01	5.73E-01	1.29E-01	4.92E-02	9.10E-01	6.73E-01	4.54E-01
226235_at	LOC339290	6.7945	7.3704	7.0071	7.6666	0.6177	0.2544	0.0418	0.8721	8.72E-03	2.03E-01	8.36E-01	1.36E-02	8.66E-02	9.29E-01	7.31E-01	1.48E-01
227713_at	KATNAL1	6.2790	7.2428	6.0445	7.1538	1.0365	-0.1618	0.0727	0.8748	2.68E-03	5.38E-01	7.92E-01	4.92E-02	4.37E-02	9.67E-01	7.21E-01	2.85E-01
223980_s_at	SP110	6.0969	6.4648	6.1820	6.9741	0.5800	0.2972	0.2121	0.8771	9.95E-04	3.67E-02	7.67E-02	3.46E-04	2.48E-02	5.33E-01	6.55E-01	2.14E-02
216250_s_at	LPXN	6.8408	7.5320	6.7895	7.7197	0.8107	0.0682	0.1195	0.8789	2.02E-03	7.27E-01	5.59E-01	1.31E-02	3.71E-02	9.67E-01	6.70E-01	1.46E-01
229919_at	Hs.592660	6.6971	7.2914	7.0729	7.5773	0.5493	0.3309	-0.0449	0.8802	7.21E-04	1.44E-02	7.06E-01	6.37E-04	2.10E-02	3.43E-01	7.00E-01	2.86E-02
223082_at	SH3KBP1	9.5236	10.6168	9.7181	10.4038	0.8895	-0.0093	-0.2038	0.8802	2.85E-04	9.54E-01	2.07E-01	3.00E-03	1.22E-02	9.67E-01	6.55E-01	6.00E-02
208454_s_at	PGCP	5.4256	6.1598	5.1639	6.3102	0.9402	-0.0566	0.2061	0.8846	3.16E-04	7.46E-01	2.36E-01	4.63E-03	1.28E-02	9.67E-01	6.55E-01	8.36E-02
230240_at	Hs.660312	6.1998	7.0416	5.9908	7.0847	0.9678	-0.0829	0.1261	0.8849	1.83E-04	6.15E-01	4.61E-01	4.93E-03	9.62E-03	9.67E-01	6.58E-01	8.60E-02
1552665_at	LOC84989	5.9187	6.8822	5.4342	6.8047	1.1670	-0.2810	0.2034	0.8860	2.60E-04	1.96E-01	3.41E-01	1.43E-02	1.16E-02	9.23E-01	6.55E-01	1.52E-01
224984_at	NFA75	9.1994	9.7361	9.3759	10.0860	0.6234	0.2632	0.0867	0.8866	2.54E-03	1.15E-01	5.96E-01	3.99E-03	4.24E-02	7.98E-01	6.78E-01	6.68E-02
203410_at	AP3M2	9.5157	10.2453	9.2580	10.4025	0.9370	-0.0502	0.2074	0.8868	1.41E-03	8.13E-01	3.44E-01	1.61E-02	3.09E-02	9.67E-01	6.55E-01	1.62E-01
213096_at	TMCC2	6.2305	7.2196	6.3967	7.1187	0.8556	0.0326	-0.1335	0.8882	9.95E-05	8.07E-01	3.32E-01	1.25E-03	6.59E-03	9.67E-01	6.55E-01	4.08E-02
227426_at	SOS1	7.5969	7.8827	8.0423	8.4853	0.3644	0.5240	0.0786	0.8884	2.48E-02	3.79E-03	5.92E-01	2.12E-03	1.57E-01	1.76E-01	6.77E-01	5.34E-02
220326_s_at	FLJ10357	6.0577	6.7957	5.5510	6.9644	1.0667	-0.1780	0.3287	0.8886	2.14E-04	3.46E-01	6.03E-02	3.08E-03	1.04E-02	9.67E-01	6.55E-01	6.61E-02
225980_at	C14orf43	7.1393	7.9979	7.5547	8.0342	0.6690	0.2259	-0.1896	0.8849	1.43E-03	1.61E-01	2.18E-01	2.10E-03	3.12E-02	8.84E-01	6.55E-01	5.30E-02
212771_at	FAM171A1	4.6813	6.3899	4.1130	5.5766	1.5861	-0.6908	-0.1225	0.8953	7.29E-06	3.13E-03	5.11E-01	7.47E-03	1.71E-03	1.55E-01	6.59E-01	1.08E-01
212609_s_at	AKT3	7.5431	8.0710	8.0687	8.4440	0.4516	0.4493	-0.0763	0.9009	9.91E-03	1.02E-02	6.12E-01	2.72E-03	9.37E-02	2.99E-01	6.81E-01	5.54E-02
244481_at	Hs.609802	5.6412	6.5271	5.5588	6.5429	0.9350	-0.0333	0.0491	0.9017	2.73E-03	8.87E-01	8.44E-01	3.00E-02	4.40E-02	9.67E-01	7.33E-01	2.23E-01
214696_at	C17orf91	6.6112	7.6117	6.9205	7.5137	0.7969	0.1057	-0.2037	0.9025	5.80E-04	5.10E-01	2.02E-01	2.42E-03	1.88E-02	9.67E-01	6.55E-01	5.73E-02
205320_at	APC2	6.2952	6.9786	6.1264	7.2032	0.8801	0.124E-02	0.1967	0.9080	1.70E-03	8.92E-01	3.54E-01	1.24E-02	3.43E-02	9.67E-01	6.55E-01	1.41E-01
236875_at	Hs.648517	5.8831	6.5623	5.8512	6.7917	0.8099	0.0988	0.1307	0.9087	8.29E-03	6.91E-01	6.17E-01	3.34E-02	8.38E-02	9.67E-01	6.82E-01	2.38E-01
238853_at	RAB31P	8.2208	8.6967	8.1715	9.1309	0.7176	0.1925	0.2417	0.9101	8.40E-03	3.91E-01	2.83E-01	1.56E-02	8.46E-02	9.67E-01	6.55E-01	1.59E-01
226926_at	DMKN	4.5983	6.0900	4.2648	5.5083	1.3676	-0.4575	-0.1241	0.9101	8.42E-05	5.05E-02	5.72E-01	1.57E-02	6.04E-03	5.93E-01	6.72E-01	1.60E-01
224659_at	SEPN1	7.1420	7.6928	6.9208	8.0538	0.8419	0.0698	0.2911	0.9117	9.71E-04	7.00E-01	9.70E-02	3.15E-03	2.44E-02	9.67E-01	6.55E-01	6.61E-02
238115_at	Hs.654936	6.1571	7.2871	6.2968	7.0695	0.9514	-0.0389	-0.1787	0.9125	2.56E-03	8.70E-01	4.71E-01	2.57E-02	4.25E-02	9.67E-01	6.58E-01	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
226549_at	SBK1	6.1163	7.0035	5.7880	7.1003	1.0997	-0.1158	0.2125	0.9840	1.21E-03	6.37E-01	4.01E-01	1.98E-02	2.85E-02	9.67E-01	6.55E-01	1.81E-01
1557242_at	Hs.665057	4.8659	5.8868	4.6691	5.8504	1.1011	-0.1166	0.0802	0.9845	6.02E-05	4.75E-01	6.07E-01	2.75E-03	5.04E-03	9.67E-01	6.86E-01	6.19E-02
227034_at	ANKRD57	5.7617	7.1991	5.4223	6.7470	1.3810	-0.3958	-0.0563	0.9853	4.91E-03	3.16E-01	8.90E-01	1.16E-01	6.21E-02	9.67E-01	7.42E-01	4.30E-01
211656_x_at	LOC100294318	12.0899	12.3215	12.5740	13.0769	0.9672	0.6197	0.1357	0.9870	6.60E-02	6.42E-03	4.72E-01	4.89E-03	2.69E-01	2.40E-01	6.58E-01	8.93E-02
209454_s_at	TEAD3	5.2408	6.0365	5.1269	6.2285	0.9847	0.0390	0.1530	0.9877	7.24E-05	7.84E-01	2.93E-01	6.87E-04	5.64E-03	9.67E-01	6.55E-01	3.36E-02
226049_at	ERC1	9.0209	9.7693	9.1798	10.0092	0.7889	0.1994	0.0405	0.9883	2.99E-03	3.36E-01	8.50E-01	9.78E-03	4.63E-02	9.67E-01	7.35E-01	1.24E-01
229388_at	TTCl8	7.0141	7.9770	7.4155	8.0035	0.7754	0.2140	-0.1875	0.9894	1.63E-04	1.22E-01	1.43E-01	3.02E-04	8.97E-03	8.13E-01	6.55E-01	2.12E-02
223218_s_at	NFKBIZ	7.5000	9.0857	7.5033	8.4911	1.2868	-0.2957	-0.2989	0.9911	7.30E-04	2.79E-01	2.68E-01	2.35E-02	2.12E-02	9.67E-01	6.55E-01	1.97E-01
233817_at	Hs.380390	5.0304	6.0470	5.1290	6.0239	0.9558	0.0378	-0.0608	0.9936	5.81E-04	8.42E-01	7.63E-01	6.88E-03	1.88E-02	9.67E-01	7.13E-01	1.04E-01
205486_at	TESK2	7.3042	8.3367	7.4681	8.2990	0.9317	0.0631	-0.1008	0.9948	4.58E-03	8.05E-01	7.10E-01	2.74E-02	5.96E-02	9.67E-01	7.01E-01	2.13E-01
214030_at	CRYBG3	6.1739	7.2170	6.5110	7.1701	0.8512	0.1451	-0.1920	0.9963	7.28E-03	5.71E-01	4.69E-01	2.37E-02	7.73E-02	9.67E-01	6.58E-01	1.97E-01
224682_at	ANKIB1	9.3185	9.7635	9.4021	10.3164	0.6796	0.3183	0.2347	0.9979	2.35E-03	8.15E-02	1.58E-01	1.59E-03	4.06E-02	7.08E-01	6.55E-01	4.52E-02
229286_at	MAGEE1	5.6898	6.4286	6.0326	6.6881	0.6971	0.3012	-0.0417	0.9983	3.31E-04	3.85E-02	7.59E-01	6.56E-04	1.31E-02	5.40E-01	7.12E-01	2.87E-02
217179_x_at	Hs.654512	5.7996	6.3754	6.0648	6.8010	0.6560	0.3454	0.0802	1.0014	2.98E-04	1.50E-02	5.19E-01	3.40E-04	1.24E-02	3.45E-01	6.61E-01	2.14E-02
228318_s_at	CRIPAK	7.6055	8.7705	8.1578	8.6098	0.8085	0.1959	-0.3565	1.0044	3.81E-03	3.73E-01	8.65E-02	4.60E-03	5.32E-02	9.67E-01	6.55E-01	8.33E-02
228827_at	Hs.547787	7.8849	8.3450	8.1977	8.8994	0.5759	0.4285	0.1158	1.0044	2.69E-03	1.38E-02	4.42E-01	1.11E-03	4.37E-02	3.37E-01	6.56E-01	3.79E-02
225913_at	SGK269	7.9734	8.8512	7.8693	8.9836	0.9961	0.0141	0.1182	1.0102	2.31E-05	9.13E-01	3.76E-01	4.70E-04	3.07E-03	9.67E-01	6.55E-01	2.51E-02
230294_at	Hs.405849	6.3667	7.7036	6.8489	7.3777	0.9328	0.0781	-0.4040	1.0109	8.55E-03	7.85E-01	1.57E-01	2.45E-02	8.56E-02	9.67E-01	6.55E-01	2.01E-01
204269_at	PIM2	11.2646	12.0789	11.4663	12.2769	0.8124	0.1998	-0.0018	1.0122	2.13E-04	1.77E-01	9.90E-01	1.12E-03	1.04E-02	9.07E-01	7.63E-01	3.81E-02
238656_at	Hs.594427	7.2065	7.6601	7.4890	8.2194	0.5920	0.4209	0.1384	1.0129	8.84E-04	7.14E-03	2.80E-01	3.22E-04	2.32E-02	2.51E-01	6.55E-01	2.14E-02
236616_at	Hs.199671	5.5031	6.7024	5.0835	6.5167	1.3163	-0.3026	0.1170	1.0136	5.03E-06	5.47E-02	4.26E-01	8.85E-04	1.43E-03	6.07E-01	6.55E-01	3.36E-02
238646_at	Hs.597327	5.9403	7.5713	5.6583	6.9540	1.4633	-0.4496	-0.1677	1.0137	6.80E-04	1.54E-01	5.93E-01	4.44E-02	2.04E-02	8.77E-01	6.77E-01	2.72E-01
236194_at	Hs.321176	5.9282	6.4259	6.5544	6.9469	0.4451	0.5735	-0.0526	1.0187	1.84E-02	4.91E-03	7.56E-01	2.25E-03	1.33E-01	2.04E-01	7.11E-01	5.54E-02
213435_at	SATB2	7.7949	8.3754	7.6742	8.8143	0.8603	0.1591	0.2798	1.0194	6.46E-04	3.70E-01	9.75E-02	1.30E-03	2.01E-02	9.67E-01	6.55E-01	4.11E-02
210236_s_at	BTG2	10.2287	11.0471	10.3622	11.2483	0.8523	0.1674	0.0339	1.0197	3.33E-04	3.00E-01	8.38E-01	2.05E-03	1.31E-02	9.67E-01	7.32E-01	5.26E-02
203879_at	PIK3CD	5.8945	7.1682	5.4904	6.9246	1.3539	-0.3239	0.0803	1.0301	2.29E-05	8.92E-02	6.64E-01	3.48E-03	3.07E-03	7.31E-01	6.92E-01	7.00E-02
212647_at	RRAS	7.3254	8.7828	7.1752	8.3575	1.3199	-0.2878	-0.1375	1.0321	2.00E-03	3.73E-01	6.81E-01	5.33E-02	3.70E-02	9.67E-01	6.96E-01	2.97E-01
205141_at	ANG	6.7958	9.1079	5.7123	7.8279	2.2139	-1.1817	-0.0983	1.0322	3.36E-07	9.02E-05	6.08E-01	4.18E-03	5.16E-04	2.90E-02	6.80E-01	7.83E-02
242989_at	Hs.720497	6.8539	7.7795	7.0848	7.8865	0.8636	0.1689	-0.0619	1.0326	9.04E-03	5.33E-01	8.28E-01	2.93E-02	8.90E-02	9.67E-01	7.30E-01	2.20E-01
209360_s_at	RUNX1	8.5775	9.2800	8.8171	9.6112	0.7483	0.2854	0.0459	1.0337	6.49E-03	2.12E-01	8.43E-01	1.17E-02	7.26E-02	9.34E-01	7.33E-01	1.37E-01
236099_at	Hs.158951	8.7011	9.6318	8.9629	9.7418	0.8547	0.1859	-0.0759	1.0406	5.53E-05	1.56E-01	5.59E-01	3.56E-04	4.83E-03	8.78E-01	6.70E-01	2.19E-02
213515_x_at	HBG2	5.3474	6.7200	5.5133	6.3885	1.1239	-0.0828	-0.2487	1.0411	9.24E-03	8.13E-01	4.98E-01	6.89E-02	9.00E-02	9.67E-01	6.58E-01	3.33E-01
212733_at	KIAA0226	8.7878	9.7983	9.3970	9.8322	0.7229	0.3216	-0.2877	1.0445	7.99E-03	1.95E-01	1.84E-01	5.74E-03	7.70E-02	8.82E-01	6.55E-01	9.40E-02
203323_at	CAV2	5.0964	7.0979	4.1602	6.1439	1.9926	-0.9451	-0.0089	1.0475	3.06E-03	8.95E-02	9.47E-01	1.97E-01	4.66E-02	7.32E-01	7.62E-01	5.43E-01
229264_at	Hs.646344	5.0935	6.0067	5.5758	6.1426	0.7400	0.3091	-0.1732	1.0491	6.31E-03	1.73E-01	4.80E-01	8.30E-03	7.16E-02	9.00E-01	6.56E-01	1.13E-01
238758_at	Hs.180761	6.9785	7.7957	7.1403	8.0305	0.8537	0.1983	0.0365	1.0520	2.12E-04	1.99E-01	8.15E-01	1.17E-03	1.04E-02	9.25E-01	7.27E-01	3.90E-02
229608_at	C1orf183	7.3078	8.0266	7.2606	8.3655	0.9119	0.1458	0.1931	1.0577	6.06E-03	5.82E-01	4.83E-01	2.15E-02	6.99E-02	9.67E-01	6.58E-01	1.88E-01
226728_at	SLC27A1	8.0542	8.7004	7.8894	9.1188	0.9378	0.1268	0.2916	1.0646	6.99E-03	6.50E-01	3.07E-01	2.25E-02	7.53E-02	9.67E-01	6.55E-01	1.92E-01
227867_at	C2orf89	7.6797	8.9629	7.2254	8.7458	1.4018	-0.3357	-0.1186	1.0660	1.81E-05	8.10E-02	5.20E-01	2.70E-03	2.70E-03	7.06E-01	6.61E-01	6.13E-02
244532_x_at	Hs.153272	8.8218	9.2885	9.4288	9.8887	0.4633	0.6036	-0.0034	1.0669	1.64E-02	4.01E-03	9.84E-01	1.96E-03	1.25E-01	1.82E-01	7.62E-01	5.14E-02
1556148_s_at	LOC100287426	4.9553	5.6449	5.3140	6.0241	0.8998	0.3690	0.0102	1.0688	5.25E-03	8.59E-02	9.61E-01	5.83E-03	6.47E-02	7.21E-01	7.57E-01	9.50E-02
226713_at	CCDC50	8.3771	9.1464	8.4959	9.4465	0.8599	0.2094	0.0907	1.0693	2.18E-04	1.82E-01	5.63E-01	1.01E-03	1.04E-02	9.51E-01	6.70E-01	3.59E-02
238766_at	Hs.604539	5.7582	7.1795	6.3748	6.8284	0.9375	0.1328	-0.4838	1.0702	8.19E-03	6.44E-01	7.84E-02	1.35E-02	8.31E-02	9.67E-01	6.55E-01	1.48E-01
205677_s_at	DLEU1	8.9309	10.1611	9.0985	10.0015	1.0666	0.0040	-0.1636	1.0707	3.00E-03	9.88E-01	5.69E-01	2.50E-02	4.63E-02	9.67E-01	6.71E-01	2.03E-01
228531_at	SMAD9	8.9025	9.4201	10.3953	9.9762	0.0492	1.0450	-0.4683	1.0737	8.75E-01	8.37E-03	1.30E-01	2.56E-02	7.62E-01	2.71E-01	6.55E-01	2.06E-01
225045_at	CCDC88A	7.0353	8.1066	7.1585	8.1124	1.0126	0.0645	-0.0587	1.0771	4.51E-03	8.16E-01	8.42E-01	2.83E-02	5.92E-02	9.67E-01	7.33E-01	2.16E-01
222830_at	GRHL1	6.6406	7.3889	6.5284	7.7197	0.9698	0.1093	0.2215	1.0791	1.10E-03	6.08E-01	3.09E-01	5.83E-03	2.68E-02	9.67E-01	6.55E-01	9.34E-02
230483_at	Hs.107801	7.6754	8.5157	7.8679	8.7552	0.8637	0.2160	0.0235	1.0797	8.17E-03	4.20E-01	9.33E-01	2.27E-02	8.31E-02	9.67E-01	7.51E-01	1.92E-01
204979_s_at	SH3BGFR	6.2126	7.5174	5.8325	7.2948	1.3835	-0.3014	0.0788	1.0822	2.96E-04	3.20E-01	8.01E-01	3.54E-02	2.39E-02	9.67E-01	7.24E-01	2.42E-01
203812_at	Hs.552087	6.0931	6.9638	6.2680	7.1798	0.8912	0.1954	0.0205	1.0867	2.17E-04	2.25E-01	9.00E-01	1.29E-03	1.04E-02	9.43E-01	7.44E-01	4.11E-02
217591_at	Hs.721360	7.1634	8.0375	7.5107	8.2503	0.8068	0.2801	-0.0673	1.0869	6.92E-03	2.82E-01	8.01E-01	1.77E-02	9.00E-02	9.67E-01	7.24E-01	1.71E-01
228737_at	TOX2	5.0468	7.0233	3.7430	6.1444	2.1890	-1.0914	0.2125	1.0976	6.23E-05	7.06E-03	5.32E-01	4.40E-02	5.31E-03	2.51E-01	6.63E-01	2.71E-01
1569785_at	Hs.621218	6.2822	7.3362	6.3389	7.3803	1.0477	0.0504	-0.0063	1.0981	5.89E-04	8.09E-01	9.77E-01	6.88E-03	1.90E-02	9.67E-01	7.61E-01	1.04E-01
200795_at	SPARCL1	6.4386	6.9329	7.0653	7.5442	0.4866	0.6190	-0.0077	1.1056	4.87E-03	1.10E-03	9.57E-01	5.01E-04	6.19E-02	9.61E-02	7.56E-01	2.56E-02
203932_at	HLA-DMB	9.5046	10.6461	9.8201	10.6112	0.9663	0.1403	-0.1752	1.1066	3.73E-04	4.44E-01	3.47E-01	2.09E-03	1.41E-02	9.67E-		

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
207616_s_at	TANK	8.2847	9.3002	8.4099	9.5039	1.0548	0.1645	0.0392	1.2193	2.77E-03	5.41E-01	8.90E-01	1.37E-02	4.40E-02	9.67E-01	7.42E-01	1.49E-01
228728_at	C7orf58	7.2022	8.1355	6.6214	8.4217	1.3668	-0.1473	0.4335	1.2195	5.46E-03	7.05E-01	2.73E-01	4.74E-02	6.56E-02	9.67E-01	6.55E-01	2.80E-01
226474_at	NLR5	6.3272	7.3224	6.0610	7.5530	1.2436	-0.0178	0.2484	1.2258	6.28E-05	9.22E-01	1.74E-01	8.18E-04	5.10E-03	9.67E-01	6.55E-01	3.23E-02
223719_s_at	RTBDN	5.9279	7.4018	5.5311	7.1564	1.5496	-0.3211	0.0757	1.2285	8.72E-06	9.58E-02	6.87E-01	1.36E-03	1.82E-03	7.51E-01	6.97E-01	4.22E-02
229227_at	FLJ45244	6.2069	6.9294	6.7600	7.4446	0.7036	0.5342	-0.0190	1.2378	9.93E-03	3.55E-02	9.36E-01	5.10E-03	9.38E-02	5.28E-01	7.52E-01	8.82E-02
229164_s_at	ABTB1	7.1683	7.7988	7.8211	8.4062	0.6078	0.6301	-0.0227	1.2379	3.44E-03	2.77E-03	8.93E-01	6.87E-04	4.96E-02	1.45E-01	7.42E-01	2.92E-02
200636_s_at	PTPRF	6.3297	7.6541	6.0373	7.5683	1.4277	-0.1891	0.1033	1.2386	2.94E-03	6.06E-01	7.89E-01	4.69E-02	4.58E-02	9.67E-01	7.21E-01	2.80E-01
203929_s_at	MAPT	7.1280	8.4270	7.3817	8.3669	1.1421	0.0968	-0.1569	1.2389	2.48E-06	3.99E-01	1.62E-01	2.57E-05	1.14E-03	9.67E-01	6.55E-01	7.03E-03
222218_s_at	PILRA	4.8795	5.7125	4.9522	6.1245	1.0027	0.2423	0.1696	1.2450	6.21E-04	1.95E-01	3.57E-01	9.57E-04	1.16E-02	9.21E-01	6.55E-01	3.48E-02
227963_at	Hs.659940	5.3822	5.9387	5.2395	6.6298	0.9734	0.2742	0.4169	1.2476	5.66E-03	3.36E-01	1.27E-01	6.99E-03	6.72E-02	9.67E-01	6.55E-01	1.04E-01
1554520_at	LOC283861	5.6304	6.1029	6.2411	6.8794	0.5554	0.6936	0.0829	1.2490	2.78E-03	6.57E-04	5.74E-01	2.49E-04	4.41E-02	7.70E-02	6.73E-01	1.87E-02
223179_at	YPEL3	6.8124	7.8212	7.2519	8.0625	0.9097	0.3404	-0.0991	1.2501	5.79E-03	2.11E-01	7.19E-01	1.05E-02	6.81E-02	9.33E-01	7.02E-01	1.30E-01
238824_at	Hs.634964	5.8218	6.7417	6.1304	7.0722	0.8409	0.4095	-0.0790	1.2504	1.19E-03	4.96E-02	6.88E-01	1.61E-03	2.83E-02	5.89E-01	6.97E-01	4.58E-02
239319_at	LOC728342	4.6394	6.4575	4.7313	5.8901	1.4884	-0.2378	-0.3296	1.2506	5.25E-04	4.23E-01	2.68E-01	1.28E-02	1.78E-02	9.67E-01	6.55E-01	1.43E-01
225076_s_at	ZNF1	6.6688	7.4723	7.0263	7.9279	0.8525	0.4065	0.0491	1.2590	6.32E-05	8.68E-03	7.12E-01	1.18E-04	5.10E-03	2.78E-01	7.01E-01	1.39E-02
229699_at	LOC100129550	6.5164	7.0523	7.2624	7.7809	0.5272	0.7372	-0.0087	1.2645	1.75E-02	2.84E-03	9.65E-01	1.66E-03	1.30E-01	1.46E-01	7.58E-01	4.64E-02
230277_at	LOC100289187	6.3740	7.5873	6.3126	7.6439	1.2723	-0.0024	0.0590	1.2700	6.80E-04	9.93E-01	8.30E-01	9.66E-03	2.04E-02	9.67E-01	7.30E-01	1.23E-01
201497_x_at	MYH11	5.8677	7.1624	5.3388	7.1384	1.5472	-0.2764	0.2525	1.2708	3.77E-05	2.14E-01	2.43E-01	2.04E-03	4.05E-03	9.36E-01	6.55E-01	5.26E-02
213135_at	TIAM1	7.6639	9.2620	7.6852	8.9354	1.4242	-0.1526	-0.1739	1.2715	2.32E-04	5.44E-01	5.05E-01	6.88E-03	1.07E-02	9.67E-01	6.58E-01	1.04E-01
227014_at	ASPHD2	6.3541	7.9011	6.2755	7.6390	1.4552	-0.1703	-0.0917	1.2849	1.73E-04	4.91E-01	7.23E-01	6.61E-03	9.34E-03	9.67E-01	7.03E-01	1.02E-01
228548_at	Hs.586618	8.5195	10.3935	8.4426	9.8048	1.6181	-0.3329	-0.2559	1.2852	3.41E-04	2.80E-01	4.09E-01	1.48E-02	1.32E-02	9.67E-01	6.55E-01	1.55E-01
208306_x_at	HLA-DRB1	12.0886	12.7670	12.8724	13.3781	0.5920	0.6975	-0.0864	1.2895	3.45E-04	1.03E-04	4.49E-01	3.04E-05	1.33E-02	2.96E-02	6.56E-01	7.61E-03
213946_s_at	OBSL1	5.4822	7.4567	5.1031	6.7734	1.8224	-0.5312	-0.1521	1.2912	2.06E-04	1.15E-01	6.46E-01	2.09E-02	1.03E-02	7.98E-01	6.87E-01	1.86E-01
204086_at	PRAME	6.8464	8.2139	6.4864	8.1378	1.5905	-0.2180	0.1419	1.2914	6.17E-05	3.37E-01	5.41E-01	3.41E-03	5.06E-03	9.67E-01	6.66E-01	6.94E-02
227579_at	Hs.107413	7.3205	8.0923	7.9242	8.6162	0.7319	0.5638	-0.0399	1.2957	8.62E-04	4.45E-03	8.07E-01	4.09E-04	2.32E-02	1.94E-01	7.25E-01	2.41E-02
226625_at	TGFBR3	6.0300	8.4892	5.4940	7.3276	2.1464	-0.8488	-0.3128	1.2976	5.59E-05	2.03E-02	3.28E-01	1.57E-02	4.83E-03	4.01E-01	6.55E-01	1.60E-01
205352_at	SERPINI1	7.6325	9.7884	7.2330	8.9313	1.9271	-0.6283	-0.2288	1.2988	4.22E-04	1.11E-01	5.52E-01	3.73E-02	1.55E-02	7.88E-01	6.68E-01	2.49E-01
212151_at	PBX1	5.4879	7.0717	5.3568	6.7867	1.5069	-0.2080	-0.0770	1.2989	5.22E-04	4.86E-01	8.06E-01	1.62E-02	1.77E-02	9.67E-01	7.25E-01	1.63E-01
233068_at	Hs.634293	6.1751	6.9768	6.8500	7.4764	0.7140	0.5873	-0.0876	1.3013	1.01E-04	4.23E-04	4.52E-01	3.31E-05	6.59E-03	6.25E-02	6.57E-01	7.98E-03
229313_at	ANO5	7.5435	8.4366	7.9122	8.8511	0.9160	0.3916	0.0229	1.3076	3.63E-03	1.30E-01	9.29E-01	5.94E-03	5.13E-02	8.32E-01	7.51E-01	9.61E-02
230033_at	C19orf51	4.9041	6.7361	4.8155	6.2124	1.6144	-0.3062	-0.1275	1.3082	1.23E-05	1.37E-01	2.70E-01	1.00E-03	2.22E-03	8.47E-01	6.55E-01	3.81E-02
228087_at	CCDC126	6.5480	8.7163	6.8170	7.8574	1.6044	-0.2949	-0.5640	1.3094	4.74E-03	5.11E-01	2.07E-01	5.44E-02	6.07E-02	9.67E-01	6.55E-01	2.98E-01
214043_at	PTPRD	4.2643	6.0968	4.0948	5.5744	1.6576	-0.3474	-0.1780	1.3101	3.09E-07	2.08E-02	1.63E-01	4.34E-05	5.16E-04	4.06E-01	6.55E-01	8.32E-03
226508_at	PHC3	9.1222	9.9425	9.7786	10.4421	0.7419	0.5780	-0.0784	1.3199	9.92E-04	4.70E-03	6.42E-01	4.24E-04	2.48E-02	1.99E-01	6.86E-01	2.45E-02
226754_at	ZNF251	5.3978	5.9617	5.5029	6.7183	0.8896	0.4308	0.3257	1.3205	4.16E-03	9.82E-02	1.76E-01	2.77E-03	5.65E-02	7.55E-01	6.55E-01	6.20E-02
240586_at	ENAM	5.0917	6.0157	5.4605	6.4122	0.9379	0.3826	0.1038	1.3205	6.88E-04	9.93E-02	9.46E-01	1.46E-03	2.04E-02	6.61E-01	7.53E-01	4.33E-02
228315_at	Hs.371609	7.8639	9.0936	8.3742	9.1902	1.0229	0.3035	-0.2069	1.3263	8.97E-04	1.89E-01	3.63E-01	2.36E-03	2.47E-02	9.16E-01	6.55E-01	5.64E-02
203799_at	CD302	5.1654	6.9615	5.7813	6.4929	1.2539	0.0737	-0.5422	1.3276	7.44E-03	8.45E-01	1.45E-01	2.35E-02	7.81E-02	9.67E-01	6.55E-01	1.97E-01
237764_at	Hs.534680	4.9994	6.3834	5.2805	6.3320	1.2177	0.1148	-0.1663	1.3326	1.65E-04	5.75E-01	4.32E-01	1.57E-03	9.05E-03	9.67E-01	6.55E-01	4.52E-02
230900_at	CCDC110	5.4272	6.6491	5.9436	6.7636	1.0210	0.3155	-0.2009	1.3364	5.80E-03	2.96E-01	5.12E-01	1.21E-02	6.81E-02	9.67E-01	6.59E-01	1.40E-01
209197_at	SYT11	7.3148	8.8932	7.1948	8.6548	1.5192	-0.1792	-0.0592	1.3400	4.59E-06	2.82E-01	7.29E-01	4.28E-04	1.43E-03	9.67E-01	7.04E-01	2.45E-02
227571_at	Hs.31037	6.3560	7.4276	6.1738	7.6986	1.2982	0.0444	0.2266	1.3426	4.92E-03	9.02E-01	5.50E-01	3.10E-02	6.21E-02	9.67E-01	6.68E-01	2.27E-01
213776_at	Hs.27371	6.6173	7.3322	6.6715	7.9603	1.0018	0.4111	0.2869	1.3430	2.33E-03	1.87E-01	2.52E-01	3.49E-03	4.03E-02	9.15E-01	6.55E-01	7.00E-02
209002_at	CALCOCO1	7.9709	8.6095	8.4280	9.3153	0.7629	0.5815	0.1243	1.3443	7.90E-04	4.39E-03	4.52E-01	3.10E-04	2.24E-02	1.92E-01	6.57E-01	2.14E-02
1556195_s_at	Hs.634086	5.6495	6.7173	5.8423	6.9941	1.1098	0.2348	0.0420	1.3446	7.57E-05	1.82E-01	8.13E-01	5.44E-04	5.77E-03	9.15E-01	7.26E-01	2.67E-02
211654_x_at	HLA-DQB1	11.3117	11.8428	12.0720	12.6630	0.5610	0.7902	0.0299	1.3513	7.18E-04	5.84E-05	8.07E-01	4.01E-05	2.10E-02	2.41E-02	7.25E-01	8.08E-03
236282_at	Hs.633960	6.3360	7.9070	6.3108	7.6880	1.4741	-0.1220	-0.0969	1.3520	4.06E-04	6.62E-01	7.42E-01	9.98E-03	1.51E-02	9.67E-01	7.07E-01	1.26E-01
226924_at	LOC400657	6.9072	7.5576	7.3557	8.2600	0.7773	0.5754	0.1269	1.3528	3.93E-03	1.92E-02	5.62E-01	1.84E-03	5.45E-02	3.91E-01	6.70E-01	4.95E-02
219882_at	TTL7	6.0165	7.1410	5.6881	7.3730	1.4047	-0.0482	0.2802	1.3565	2.65E-05	8.11E-01	1.64E-01	7.74E-04	4.69E-03	9.67E-01	6.55E-01	3.12E-02
217362_x_at	HLA-DRB6	8.5796	9.4050	9.5223	9.9370	0.6200	0.7374	-0.2054	1.3574	7.05E-04	2.06E-04	9.52E-02	2.11E-05	2.07E-02	4.35E-02	6.55E-01	6.33E-03
229338_at	LOC100289361	6.3784	8.4626	6.8429	7.7361	1.4887	-0.1310	-0.5955	1.3576	1.52E-03	7.02E-01	6.77E-02	9.31E-03	3.24E-02	9.67E-01	6.55E-01	1.20E-01
235543_at	Hs.122011	6.8230	7.7189	6.7198	8.1843	1.1802	0.1811	0.2843	1.3613	6.10E-05	3.09E-01	8.90E-02	1.78E-04	5.06E-03	9.67E-01	6.55E-01	1.54E-02
224970_at	NFIA	7.7684	8.8287	7.8756	9.1325	1.1586	0.2055	0.0983	1.3641	3.58E-06	1.10E-01	4.29E-01	3.71E-05	1.36E-03	7.85E-01	6.55E-01	7.98E-03
206268_at	LEFTY1	4.6324	5.5888	4.6738	6.0163	1.1494	0.2345	0.1930	1.3839	6.08E-04	3.21E-01	4.20E-01	2.58E-03	1.93E-02	9.67E-01	6.55E-01	5.93E-02
200920_s_at	BTG1	11.0685	12.1466	11.3036	12.4547	1.1446	0.2716	0.0365	1.3862	7.75E-04	2.57E-01	8.82E-01	3.33E-03	2.20E-02	9.64E-01	7.40E-01	6.

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
224685_at	MLLT4	6.4830	8.3167	6.5913	8.0829	1.6627	-0.0628	-0.1710	1.5999	8.98E-04	8.59E-01	6.46E-01	1.34E-02	2.34E-02	9.67E-01	6.87E-01	1.47E-01
205997_at	ADAM28	6.5813	8.1055	6.1488	8.1858	1.7806	-0.1761	0.2565	1.6045	8.93E-06	3.99E-01	2.15E-01	3.40E-04	1.83E-03	9.67E-01	6.55E-01	2.14E-02
235205_at	LOC346887	6.5212	7.9995	6.4947	8.1312	1.5574	0.0526	0.0791	1.6100	1.16E-06	7.08E-01	5.92E-01	4.23E-05	7.26E-04	9.67E-01	6.77E-01	8.25E-03
221563_at	DUSP10	6.0122	6.9528	6.7322	7.6238	0.9161	0.6955	-0.0245	1.6116	5.92E-03	2.36E-02	9.30E-01	2.99E-03	6.88E-02	4.35E-01	7.51E-01	6.50E-02
220148_at	ALDH8A1	6.0231	6.7177	6.8744	7.6533	1.1778	0.4345	-0.4168	1.6123	6.80E-03	2.30E-01	2.37E-01	8.10E-03	7.43E-02	9.47E-01	6.55E-01	1.12E-01
225606_at	BCL2L11	8.8331	10.2393	9.8583	10.4481	0.9980	0.6170	-0.4082	1.6150	3.76E-03	4.01E-02	1.16E-01	1.16E-03	5.25E-02	5.49E-01	6.55E-01	3.88E-02
204805_s_at	H1FX	9.5144	10.8791	8.7211	11.1321	1.8878	-0.2701	0.5231	1.6177	2.58E-03	5.70E-01	2.77E-01	3.43E-02	4.27E-02	9.67E-01	6.55E-01	2.40E-01
201502_s_at	NFKBIA	10.4368	11.6361	10.9161	12.0642	1.1737	-0.0255	0.4537	1.6274	1.25E-05	8.92E-03	8.64E-01	4.54E-05	2.22E-03	2.81E-01	7.37E-01	8.32E-03
228439_at	BATF2	9.2602	10.6011	9.1748	10.8953	1.5307	0.1044	-0.1898	1.6351	4.42E-07	4.05E-01	1.16E-01	4.94E-06	5.16E-04	9.67E-01	6.55E-01	3.18E-03
1563674_at	FCRL2	6.5723	8.3963	7.0497	8.2348	1.5046	0.1579	-0.3194	1.6625	2.79E-03	6.79E-01	4.19E-01	1.40E-02	4.42E-02	9.67E-01	6.55E-01	1.50E-01
222810_s_at	RASAL2	4.6691	6.1993	4.6670	6.3358	1.5995	0.0672	0.0892	1.6667	8.00E-06	7.12E-01	7.19E-01	2.19E-04	1.77E-03	9.67E-01	7.02E-01	1.69E-02
227193_at	Hs.375762	4.9726	6.6287	4.5054	6.6502	1.9005	-0.2228	0.2443	1.6776	3.36E-05	3.97E-01	3.59E-01	1.50E-03	3.95E-03	9.67E-01	6.55E-01	4.41E-02
220277_at	CXXC4	7.8944	8.4452	8.5245	9.5797	0.8030	0.8823	0.2522	1.6853	1.02E-02	6.13E-03	3.38E-01	1.33E-03	9.53E-02	2.36E-01	6.55E-01	4.14E-02
235230_at	PLCXD2	6.1215	7.4790	7.1015	7.8078	1.0319	0.6544	-0.3256	1.6863	1.76E-03	2.14E-02	1.80E-01	6.59E-04	3.49E-02	4.12E-01	6.55E-01	2.87E-02
222633_at	TBL1XR1	10.2881	11.3468	11.0306	11.9767	1.0024	0.6862	-0.0563	1.6886	8.58E-03	4.77E-02	8.64E-01	5.51E-03	8.57E-02	5.78E-01	7.36E-01	9.19E-02
1568597_at	LOC646762	8.1720	9.6411	8.9689	9.8628	1.1830	0.5078	-0.2891	1.6908	2.46E-03	1.08E-01	3.38E-01	2.95E-03	4.17E-02	7.80E-01	6.55E-01	6.98E-02
1569905_at	HSD11B1L	6.7645	8.5996	7.1666	8.4566	1.5626	0.1296	-0.2726	1.6922	3.13E-04	6.50E-01	3.54E-01	2.55E-03	1.27E-02	9.67E-01	6.55E-01	5.89E-02
219628_at	ZMAT3	7.6059	9.1248	8.3644	9.2989	1.2266	0.4663	-0.2922	1.6930	1.36E-03	1.17E-01	3.04E-01	1.99E-03	3.06E-02	8.03E-01	6.55E-01	5.18E-02
203065_s_at	CAV1	7.1432	9.4185	6.2344	8.8411	2.4410	-0.7431	0.1657	1.6979	4.36E-05	5.22E-02	6.46E-01	8.66E-03	4.44E-03	5.96E-01	6.88E-01	1.16E-01
219737_s_at	PCDHR3	7.0740	8.5532	6.7090	8.7756	1.7730	-0.0713	0.2937	1.7016	6.65E-04	8.43E-01	4.33E-01	9.57E-03	2.03E-02	9.67E-01	6.55E-01	1.23E-01
221044_s_at	TRIM34	5.1237	6.3094	5.4395	6.8425	1.2944	0.4244	0.1086	1.7188	6.33E-03	2.76E-01	7.86E-01	1.36E-02	7.16E-02	9.67E-01	7.20E-01	1.48E-01
206857_s_at	FKBP1B	3.6551	6.4915	3.0863	5.3755	2.5628	-0.8424	-0.2736	1.7204	1.49E-05	2.20E-02	4.01E-01	4.29E-03	2.50E-03	4.18E-01	6.55E-01	7.98E-02
208944_at	TGFBFR2	7.2231	8.4134	7.3984	8.9492	1.3705	0.3556	0.1802	1.7261	2.56E-03	3.12E-01	6.17E-01	7.77E-03	4.25E-02	9.67E-01	6.82E-01	1.10E-01
1552807_at	NCRNA00204	5.5994	6.8231	5.8343	7.3306	1.3599	0.3712	0.1363	1.7312	4.21E-04	1.73E-01	6.16E-01	1.58E-03	1.55E-02	8.99E-01	6.82E-01	4.52E-02
229829_at	C18orf18	5.8210	7.4797	6.2438	7.5532	1.4840	0.2481	-0.1747	1.7321	7.03E-06	1.58E-01	3.05E-01	5.79E-05	1.71E-03	8.82E-01	6.55E-01	9.24E-03
204099_at	SMARCD3	5.2306	7.1698	5.2990	6.9759	1.8080	-0.0628	-0.1312	1.7452	6.67E-08	5.94E-01	2.71E-01	3.85E-06	3.69E-04	9.67E-01	6.55E-01	3.18E-03
218718_at	PDGFC	2.8495	6.0367	2.3663	4.6025	2.7117	-0.9587	-0.4755	1.7530	4.40E-05	2.91E-02	2.16E-01	8.09E-03	4.44E-03	4.83E-01	6.55E-01	1.12E-01
223806_s_at	NAPSA	7.1087	8.7311	6.5362	8.8711	1.9787	-0.2162	0.3562	1.7624	8.57E-04	6.06E-01	4.10E-01	1.61E-02	2.32E-02	9.67E-01	6.55E-01	1.62E-01
213361_at	TDRD7	4.8543	6.8865	4.0719	6.6188	2.2895	-0.5250	0.2573	1.7645	1.68E-05	9.00E-02	3.83E-01	2.07E-03	2.58E-03	7.32E-01	6.55E-01	5.29E-02
205933_at	SETBP1	8.3735	9.4087	8.6544	10.1518	1.2663	0.5120	0.2311	1.7783	3.28E-04	4.93E-02	3.34E-01	5.14E-04	1.30E-02	5.87E-01	6.55E-01	2.80E-02
235802_at	PLD4	8.2691	9.7764	8.2032	10.0622	1.6831	0.1099	0.1758	1.7930	2.27E-04	7.09E-01	5.69E-01	2.66E-03	1.05E-02	9.67E-01	6.71E-01	6.06E-02
201360_at	CST3	8.4078	9.8763	8.5351	10.2045	1.5690	0.2277	0.1004	1.7967	1.48E-03	5.30E-01	7.92E-01	8.64E-03	3.19E-02	9.67E-01	7.21E-01	1.16E-01
236990_at	Hs.434326	4.6243	6.4492	4.9383	6.4309	1.6587	0.1478	-0.1662	1.8065	4.81E-05	5.34E-01	5.00E-01	6.26E-04	4.61E-03	9.67E-01	6.58E-01	2.84E-02
205801_s_at	RASGRP3	8.5959	9.2066	10.2102	10.4125	0.4035	1.4131	-0.2012	1.8166	6.88E-02	4.90E-05	1.31E-01	1.69E-04	2.75E-01	2.40E-02	6.55E-01	1.54E-02
219825_at	CYP26B1	4.7975	6.4644	4.3233	6.6158	1.9797	-0.1614	0.3128	1.8184	7.64E-06	4.76E-01	6.60E-01	2.16E-04	1.72E-01	9.67E-01	6.55E-01	1.69E-02
207417_s_at	ZNF177	5.3217	6.8562	6.1659	7.1694	1.2690	0.5787	-0.2655	1.8477	8.23E-04	5.15E-02	3.32E-01	9.46E-04	2.29E-02	5.95E-01	6.55E-01	3.48E-02
230657_at	Hs.668532	4.7935	6.3385	5.3641	6.6708	1.4259	0.4515	-0.1192	1.8773	4.31E-04	1.21E-01	6.78E-01	1.36E-03	1.57E-02	8.11E-01	6.96E-01	4.22E-02
226250_at	Hs.202577	6.0977	6.9430	6.8999	7.9795	0.9625	0.9193	0.1171	1.8818	9.99E-04	1.35E-03	5.91E-01	2.20E-04	2.48E-02	1.10E-01	6.77E-01	1.69E-02
226959_at	LOC283070	5.9324	7.4102	6.3587	7.8237	1.4714	0.4199	-0.0064	1.8912	6.85E-07	7.03E-03	9.62E-01	6.21E-06	5.82E-04	2.51E-01	7.57E-01	3.47E-03
204199_at	RALGPS1	7.2598	8.9537	7.6774	9.1533	1.5849	0.3086	-0.1090	1.8935	1.65E-06	6.15E-02	4.83E-01	1.82E-05	9.13E-04	6.31E-01	6.58E-01	6.20E-03
228347_at	SIX1	6.6962	8.9366	7.1964	8.6039	1.8240	0.0837	-0.4165	1.9077	7.58E-03	8.79E-01	4.67E-01	3.85E-02	7.89E-02	9.67E-01	6.58E-01	2.54E-01
223595_at	TMEM133	5.9149	8.3667	6.6345	7.8232	1.8202	0.0880	-0.6316	1.9082	1.64E-03	8.35E-01	1.30E-01	6.89E-03	3.37E-02	9.67E-01	6.55E-01	1.04E-01
226878_at	HLA-DOA	6.5957	7.8051	6.9722	8.5053	1.3713	0.5383	0.1618	1.9096	5.22E-05	2.01E-02	4.30E-01	1.19E-04	4.69E-03	4.00E-01	6.55E-01	1.39E-02
213201_s_at	TNNT1	5.5637	8.3491	4.8076	7.4758	2.7268	-0.8147	-0.0586	1.9121	3.22E-06	1.44E-02	8.42E-01	1.45E-03	1.31E-03	3.43E-01	7.33E-01	4.33E-02
226925_at	ACPL2	4.8790	6.9314	4.6727	6.8072	2.0935	-0.1652	0.0411	1.9253	9.53E-04	7.13E-01	9.31E-01	1.82E-02	2.41E-02	9.67E-01	7.51E-01	1.73E-01
228724_at	Hs.594267	4.5461	6.1650	4.4804	6.4756	1.8070	0.1225	0.1882	1.9295	9.17E-06	5.60E-01	3.84E-01	1.56E-04	1.84E-03	9.67E-01	6.55E-01	1.54E-02
228816_at	ATP6AP1L	5.9418	7.3975	5.9603	7.8804	1.6879	0.2057	0.2322	1.9386	1.05E-04	3.56E-01	3.99E-01	6.77E-04	6.77E-03	9.67E-01	6.55E-01	3.11E-02
206121_at	AMPD1	8.7268	10.5249	9.8079	10.6698	1.3300	0.6130	-0.4681	1.9430	1.16E-03	5.96E-02	1.01E-01	6.14E-04	2.80E-02	6.25E-01	6.55E-01	2.82E-02
213982_s_at	RABGAP1L	8.7372	10.7634	9.0509	10.7291	1.8522	0.1397	-0.1740	1.9919	7.69E-05	6.19E-01	5.53E-01	1.04E-03	5.82E-03	9.67E-01	6.89E-01	3.64E-02
204469_at	PTPRZ1	4.2391	5.8579	4.8192	6.2499	1.5248	0.4861	-0.0941	2.0109	3.57E-05	3.98E-02	6.69E-01	1.52E-04	3.95E-03	5.46E-01	6.94E-01	1.53E-02
229202_at	Hs.598463	7.2643	8.5508	8.0563	9.2762	1.2532	0.7587	-0.0333	2.0119	3.93E-05	1.48E-03	8.56E-01	4.45E-05	4.18E-03	1.16E-01	7.36E-01	8.32E-03
226018_at	C7orf41	4.8987	6.4596	5.4372	6.9299	1.5268	0.5044	-0.0341	2.0312	7.12E-06	1.40E-02	8.51E-01	3.72E-05	1.71E-03	3.39E-01	7.35E-01	7.98E-03
220390_at	AGBL2	4.6112	5.7907	5.2457	6.6706	1.3022	0.7572	0.1227	2.0594	1.67E-03	3.02E-02	7.02E-01	1.53E-03	3.39E-02	4.92E-01	6.99E-01	4.47E-02
228206_at	HS3ST4	6.6379	8.4444	6.4818	8.7374	2.0311	0.0684	0.2246	2.0995	3.26E-03	8.87E-01	6.87E-01	2.45E-02	4.84E-02	9.67E-01	6.97E-01	2.01E-01
204415_at	IFI6	6.9564	8.9282	7.4619	9.0673	1.7886	0.3223	-0.1832	2.1109	1.49E-04	2.89E-01	5.53E-01	1.00E-03	8.30E-03	9.67E-01	6.89E-01	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
210279_at	GPR18	7.1293	7.2775	5.8382	7.1804	0.1481	-1.2912	0.5970	0.0511	6.68E-01	6.66E-03	4.50E-02	8.89E-01	7.63E-01	2.58E-01	6.55E-01	8.37E-01
210234_s_at	GRM4	6.1449	5.9144	5.8794	6.2314	-0.2305	-0.2655	0.2912	0.0865	6.70E-02	4.06E-02	5.35E-03	4.50E-01	3.81E-01	4.63E-01	6.55E-01	7.20E-01
217232_x_at	HBB	6.0139	6.5771	6.4241	6.3845	0.5631	0.4102	-0.3014	0.3706	8.84E-03	3.67E-02	3.15E-02	5.35E-02	1.56E-01	4.47E-01	6.55E-01	2.97E-01
201137_s_at	HLA-DBP1	10.0445	10.9662	11.2005	11.5537	0.9217	1.1560	-0.2842	1.5092	5.93E-04	1.29E-04	4.41E-02	1.92E-05	4.78E-02	6.61E-02	6.55E-01	6.33E-03
206074_s_at	HMGGA1	11.1997	10.2227	10.6701	10.3682	-0.9770	-0.5296	0.3376	-0.8315	9.84E-04	2.55E-02	3.87E-02	2.61E-03	5.73E-02	4.01E-01	6.55E-01	5.98E-02
200800_s_at	HSPA1A	7.9537	7.2212	7.2065	7.3084	-0.7325	-0.7472	0.4172	-0.6453	1.17E-03	1.04E-03	4.19E-03	5.22E-03	6.25E-02	1.20E-01	6.55E-01	5.86E-02
205718_at	ITGB7	12.1214	12.3196	10.7058	12.4714	0.1982	-1.4156	0.7837	0.3500	6.48E-01	9.61E-03	2.93E-02	4.27E-01	7.55E-01	2.87E-01	6.55E-01	7.13E-01
242722_at	LMO7	7.4125	7.5208	6.5504	7.3998	0.1083	-0.8621	0.3706	-0.0127	4.93E-01	4.47E-04	8.40E-03	9.35E-01	7.16E-01	8.83E-02	6.55E-01	8.45E-01
206218_at	MAGEB2	4.4137	6.8320	5.9574	6.0176	2.4183	1.5437	-1.1790	1.6039	1.78E-03	1.90E-02	1.33E-02	1.60E-02	7.81E-02	3.64E-01	6.55E-01	1.62E-01
201475_x_at	MARS	11.1719	10.2921	10.2939	10.2991	-0.8798	-0.8780	0.4425	-0.8728	8.97E-03	9.07E-03	4.06E-02	9.34E-03	1.57E-01	2.82E-01	6.55E-01	1.20E-01
231736_x_at	MGST1	10.9754	10.2104	10.0545	10.1365	-0.7650	-0.9208	0.4234	-0.8389	9.80E-03	3.66E-03	2.98E-02	6.09E-03	1.62E-01	2.08E-01	6.55E-01	9.72E-02
212021_s_at	MKI67	8.6967	7.3753	7.1858	6.8180	-1.3214	-1.5108	0.4768	-1.8786	1.03E-05	3.78E-06	1.09E-03	7.15E-07	1.01E-02	4.25E-02	6.55E-01	2.82E-03
211926_s_at	MYH9	9.1808	8.9413	8.4892	8.9993	-0.2395	-0.6917	0.3748	-0.1815	2.65E-01	8.52E-03	2.90E-02	3.90E-01	6.27E-01	2.78E-01	6.55E-01	6.90E-01
215822_x_at	MYT1	5.4561	5.8819	5.8117	5.8169	0.4258	0.3556	-0.2103	0.3608	2.64E-03	7.14E-03	1.71E-02	6.61E-03	9.31E-02	2.65E-01	6.55E-01	1.02E-01
201227_s_at	NDUFB8	10.9753	11.0702	11.3309	9.8187	0.0949	0.3556	-0.8036	-1.1566	7.09E-01	1.85E-01	1.67E-03	1.50E-03	7.68E-01	5.94E-01	6.55E-01	4.41E-02
207543_s_at	PAHA1	10.3108	11.8116	9.9837	9.5004	1.5009	-0.3271	-0.9920	-0.8103	5.19E-03	4.31E-01	7.43E-03	1.40E-02	1.22E-01	6.36E-01	6.55E-01	3.46E-01
202627_s_at	SERPINE1	5.1699	7.1265	5.0280	5.8761	1.9566	-0.1439	-0.5533	0.7062	2.29E-04	6.55E-01	3.55E-02	5.21E-02	3.41E-02	6.98E-01	6.55E-01	2.93E-01
205066_s_at	ENPP1	6.1722	6.7338	5.2417	6.1855	0.5617	-0.9304	0.1910	0.0133	1.33E-03	4.45E-05	4.92E-02	9.12E-01	6.58E-02	6.25E-02	6.55E-01	8.43E-01
207132_x_at	PFDN5	11.2856	12.0657	12.1605	12.0892	0.7801	0.8748	-0.4256	0.8036	1.69E-02	9.78E-03	4.90E-02	1.48E-02	2.15E-01	2.87E-01	6.55E-01	1.55E-01
202240_at	PLK1	9.3492	7.9669	7.7099	7.3925	-1.3823	-1.6393	0.5325	-1.9667	2.03E-03	7.06E-04	4.02E-02	2.19E-04	8.31E-02	1.02E-01	6.55E-01	1.69E-02
201136_at	PLP2	10.5789	11.0477	9.3861	10.5429	0.4688	-1.1928	0.3440	-0.0360	1.78E-02	6.51E-05	1.50E-02	8.25E-01	2.19E-01	6.25E-02	6.55E-01	8.28E-01
209805_at	PMS2	8.4951	7.5178	7.7320	7.6587	-0.9773	-0.7631	0.4520	-0.8364	6.20E-04	2.82E-03	7.46E-03	1.64E-03	4.85E-02	1.91E-01	6.55E-01	4.62E-02
204517_at	PPIC	7.2852	8.7839	7.7613	7.9093	1.4987	0.4761	-0.6753	0.6241	5.75E-03	2.69E-01	4.45E-02	1.58E-01	1.27E-01	5.99E-01	6.55E-01	4.96E-01
202545_at	PRKCD	6.5728	6.9753	5.4199	6.9293	0.4024	-1.1529	0.5535	0.3565	1.33E-01	1.38E-03	1.17E-02	1.77E-01	5.00E-01	1.38E-01	6.55E-01	5.18E-01
226048_at	PRK8	6.2495	7.4085	6.6860	6.6988	1.1590	0.4365	-0.5731	0.4493	9.26E-03	2.35E-01	4.44E-02	2.23E-01	1.59E-01	5.97E-01	6.55E-01	5.68E-01
204060_s_at	PPXK	7.5081	6.7553	7.1286	7.1129	-0.7528	-0.3795	0.3686	-0.3952	9.99E-03	1.29E-01	4.86E-02	1.16E-01	1.63E-01	5.80E-01	6.55E-01	4.30E-01
200026_at	RPL34	12.5117	13.2373	13.3906	13.2477	0.7256	0.8790	-0.4342	0.7361	9.69E-03	3.49E-03	2.12E-02	9.02E-03	1.61E-01	2.07E-01	6.55E-01	1.19E-01
201429_s_at	RPL37A	13.7074	14.0169	14.1259	13.8805	0.3095	0.4186	-0.2775	0.1731	3.48E-02	8.91E-03	1.23E-02	1.93E-01	2.92E-01	2.82E-01	6.55E-01	5.38E-01
201406_at	RPL36A	13.3659	13.9305	13.9410	13.8436	0.5646	0.5751	-0.3310	0.4776	9.25E-03	8.43E-03	2.23E-02	2.04E-02	1.59E-01	2.78E-01	6.55E-01	1.83E-01
200763_s_at	RPLP1	13.3060	13.7162	13.7494	13.6333	0.4103	0.4434	-0.2632	0.3273	8.54E-03	5.69E-03	1.38E-02	2.46E-02	1.53E-01	2.47E-01	6.55E-01	2.01E-01
200095_x_at	RPS10	13.8877	14.2263	14.1922	14.1728	0.3386	0.3045	-0.1790	0.2785	6.51E-03	9.73E-03	2.30E-02	1.34E-02	1.25E-01	2.87E-01	6.55E-01	1.47E-01
211487_x_at	RPS17	13.3854	13.7060	13.7379	13.6974	0.3207	0.3526	-0.1806	0.3120	8.40E-03	5.10E-03	2.44E-02	9.64E-03	1.53E-01	2.32E-01	6.55E-01	1.23E-01
203455_s_at	SAT1	6.9074	8.0666	7.9587	7.6094	1.8992	1.0513	-1.1243	0.7020	7.31E-03	8.37E-02	1.74E-02	2.24E-01	1.42E-01	5.53E-01	6.55E-01	5.69E-01
1555851_s_at	SEPW1	9.3108	10.3292	10.5665	10.4646	0.1084	1.2557	-0.5602	1.1538	8.77E-03	2.81E-03	2.80E-02	4.53E-03	1.56E-01	1.91E-01	6.55E-01	8.27E-02
201696_at	SFRS4	10.6418	9.7848	10.1192	10.0718	-0.8570	-0.5226	0.4048	-0.5700	2.91E-03	3.29E-02	2.25E-02	2.29E-02	9.68E-02	4.33E-01	6.55E-01	1.94E-01
200924_s_at	SLCS3A2	9.7650	8.2898	7.9147	7.6977	-1.4752	-1.8503	0.6291	-2.0672	4.10E-03	1.07E-03	4.34E-02	5.29E-04	1.09E-01	1.22E-01	6.55E-01	2.62E-02
209453_at	SLC9A1	7.7090	7.1745	6.9370	7.0247	-0.5345	-0.7720	0.3111	-0.6843	5.44E-03	6.09E-04	1.45E-02	1.30E-03	1.24E-01	9.69E-02	6.55E-01	4.11E-02
219992_at	TAC3	5.2899	6.2249	5.5180	5.9495	0.9350	0.2281	-0.2518	0.6595	2.13E-07	4.24E-03	2.69E-04	3.12E-06	1.48E-03	2.23E-01	6.55E-01	3.13E-03
39729_at	PRDX2	10.8330	10.8884	11.4182	9.8773	0.0554	0.5852	-0.7981	-0.9557	8.73E-01	1.20E-01	9.91E-03	2.16E-02	7.97E-01	5.80E-01	6.55E-01	1.88E-01
208700_s_at	TKT	11.7186	10.8274	10.7340	10.6385	-0.8912	-0.9846	0.3979	-1.0801	9.82E-04	5.19E-04	1.28E-02	2.81E-04	5.73E-02	9.40E-02	6.55E-01	2.07E-02
220818_s_at	TRPC4	8.2580	6.7629	7.7502	7.2268	-1.4951	-0.5079	0.4859	-1.0313	1.65E-04	5.45E-02	1.59E-02	1.83E-03	2.89E-02	5.09E-01	6.55E-01	4.94E-02
201113_at	TUFM	12.6018	12.0296	11.9663	11.9102	-0.5722	-0.6356	0.2581	-0.6916	3.98E-03	2.18E-03	3.43E-02	1.31E-03	1.08E-01	1.68E-01	6.55E-01	4.11E-02
209118_s_at	TUBA1A	7.8449	10.5638	7.8030	9.3947	2.7189	-0.0419	-0.5636	1.5498	1.31E-06	8.49E-01	5.60E-03	8.40E-05	3.07E-03	7.51E-01	6.55E-01	1.18E-02
201195_s_at	SLC7A5	11.3490	9.6528	9.4345	8.6587	-1.6961	-1.9145	0.4601	-2.6903	1.61E-04	6.92E-05	3.42E-02	5.72E-06	2.89E-02	6.25E-02	6.55E-01	3.35E-03
232035_at	HIST1H4H	4.6016	4.4816	6.1686	4.6588	-0.1199	-0.1567	-0.6949	0.0572	7.56E-01	2.97E-03	2.98E-02	8.82E-01	7.79E-01	1.99E-01	6.55E-01	8.37E-01
200596_s_at	EIF3A	10.0194	9.1966	9.6026	9.5175	-0.8228	-0.4168	0.3689	-0.5018	4.49E-04	2.01E-02	6.78E-03	8.29E-03	4.35E-02	3.70E-01	6.55E-01	1.13E-01
212876_at	BAGL1	8.2656	8.2654	7.5231	8.1144	-0.0002	-0.7424	0.2957	-0.1512	9.99E-01	1.88E-03	3.35E-02	3.81E-01	8.16E-01	1.62E-01	6.55E-01	6.85E-01
206046_at	ADAM23	9.4258	10.4625	8.8195	9.3022	1.0367	-0.6063	-0.2770	-0.1236	8.11E-05	2.65E-03	2.42E-02	4.07E-01	2.03E-02	1.86E-01	6.55E-01	7.01E-01
217733_s_at	TMSB10	11.6829	13.2967	12.4996	12.9583	1.6138	0.8166	-0.5775	1.2754	1.84E-03	4.97E-02	4.96E-02	6.90E-03	7.88E-02	4.95E-01	6.55E-01	1.04E-01
211951_at	NOLC1	11.1895	10.2571	10.9069	10.5889	-0.9324	-0.2826	0.3072	-0.6006	1.67E-04	8.00E-02	1.51E-02	2.76E-03	2.89E-02	5.48E-01	6.55E-01	6.19E-02
200888_s_at	RPL23	12.0507	13.1240	13.1330	12.9788	1.0733	1.0823	-0.6138	0.9281	3.49E-03	3.33E-03	1.07E-02	7.67E-03	1.03E-01	2.05E-01	6.55E-01	1.09E-01
205210_at	TGFBFRAP1	7.4098	6.4311	6.8968	6.7924	-0.9787	-0.5130	0.4372	-0.6174	1.07E-04	6.07E-03	2.12E-03	2.14E-03	2.37E-02	2.49E-01	6.55E-01	5.37E-02
201729_s_at	KIAA1000	10.4877	9.7664	10.1410	10.0049	-0.7213	-0.3466	0.2925	-0.4828	1.71E-03	5.72E-02	2.93E-02	1.48E-02	7.66E-02	5.14E-01	6.55E-01	1.55E-01
212832_s_at	KCAP5	9.5364	8.8202	8.7491	8.6776	-0.7162	-0.7873	0.3224	-0.8587	5.29E-03	3.13E-03	4.22E-02	1.88E-03	1.23E-01	2.01E-01	6.55E-01	5.02E-02
202128_at	KIAA0317	8.4367	8.0192	7.8405	7.9971	-0.4175	-0.5962	0.2870	-0.4396	2.12E-02	3.53E-03	2.40E-02	1.68E-02	2.36E-01	2.08E-01	6.55E-01	

Supplementary Table 1A

1647 genes selected by the ANOVA analyses

AffyID	GeneID	Drug Treatment Means (log2 Expression)				Drug Treatment Effects (log2 Fold change)				P-values				Q-values			
		Control	MS-275	Rapa	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.	MS-275	Rapa	Int.	Comb.
218590_at	C10orf2	8.5727	7.8422	8.4404	8.4334	-0.7306	-0.1324	0.3618	-0.1394	1.40E-03	4.12E-01	1.02E-02	3.89E-01	6.79E-02	6.29E-01	6.55E-01	6.90E-01
231988_x_at	ZNF490	5.8633	6.5150	6.6805	6.4043	0.6517	0.8172	-0.4639	0.5410	1.00E-02	5.88E-03	1.74E-02	3.92E-02	2.19E-01	2.47E-01	6.55E-01	2.56E-01
218575_at	ANAPC1	9.7590	8.8588	8.9722	9.0402	-0.9002	-0.7868	0.4841	-0.7188	3.62E-03	7.49E-03	1.49E-02	1.18E-02	1.05E-01	2.71E-01	6.55E-01	1.38E-01
57163_at	ELOVL1	8.9841	8.2823	8.1010	7.9587	-0.7018	-0.8831	0.2798	-1.0254	1.60E-03	3.71E-04	3.00E-02	1.34E-04	7.45E-02	8.75E-02	6.55E-01	1.47E-02
219483_s_at	PORCN	9.2423	8.4338	8.4723	8.5495	-0.8085	-0.7700	0.4428	-0.6928	9.70E-03	1.23E-02	3.09E-02	2.01E-02	1.61E-01	3.13E-01	6.55E-01	1.82E-01
219879_s_at	C17orf53	6.6203	5.8307	5.5808	5.6015	-0.7895	-1.0394	0.4051	-1.0188	4.85E-03	9.61E-04	2.33E-02	1.09E-03	1.18E-01	1.16E-01	6.55E-01	3.74E-02
201361_at	TMEM109	10.6640	10.3781	9.4506	9.9948	-0.2859	-1.2134	0.4150	-0.6692	2.44E-01	6.99E-04	3.26E-02	1.87E-02	6.14E-01	1.02E-01	6.55E-01	1.76E-01
204985_s_at	TRAPP6A	9.1465	10.3529	10.1324	10.2378	1.2065	0.9860	-0.5505	1.0914	4.03E-03	1.16E-02	3.30E-02	6.93E-03	1.08E-01	3.02E-01	6.55E-01	1.04E-01
217795_s_at	TMEM43	9.1780	8.6835	8.9790	9.0190	-0.4945	-0.1990	0.2673	-0.1590	8.76E-03	2.03E-01	3.00E-02	3.00E-01	1.56E-01	5.97E-01	6.55E-01	6.33E-01
218342_s_at	ERMP1	8.3163	7.9068	7.3304	7.4581	-0.4094	-0.9858	0.2685	-0.8582	6.77E-03	2.34E-05	9.95E-03	6.36E-05	1.37E-01	6.25E-02	6.55E-01	1.00E-02
218776_s_at	TMEM62	7.9550	7.3306	7.1055	7.1335	-0.6244	-0.8495	0.3262	-0.8215	3.31E-03	5.01E-04	1.58E-02	6.23E-04	1.02E-01	9.25E-02	6.55E-01	2.84E-02
201913_s_at	COASY	10.3824	10.3660	9.7281	10.2794	-0.1644	-0.6543	0.2838	-0.1030	9.20E-01	3.18E-03	3.42E-02	5.31E-01	8.05E-01	2.01E-01	6.55E-01	7.51E-01
1564234_at	KATNAL2	6.3078	6.1267	5.9612	6.1325	-0.1811	-0.3466	0.1762	-0.1753	7.27E-02	4.21E-03	2.17E-02	8.05E-02	3.95E-01	1.22E-01	6.55E-01	3.61E-01
226584_s_at	FAM110A	6.6931	6.5302	5.9554	6.3258	-0.1628	-0.7376	0.2666	-0.3673	3.13E-01	1.23E-03	3.73E-02	4.13E-02	6.53E-01	2.29E-01	6.55E-01	2.63E-01
223594_at	TMEM117	7.8902	7.2316	7.6326	7.5643	-0.6586	-0.2577	0.2952	-0.3259	4.12E-04	5.35E-02	6.34E-03	2.11E-02	4.26E-02	5.04E-01	6.55E-01	1.86E-01
211767_at	GINS4	8.9255	8.8310	8.1021	7.3251	-0.0945	-0.8233	-0.3412	-1.6003	5.65E-01	7.92E-04	1.54E-02	7.50E-06	7.36E-01	1.02E-01	6.55E-01	4.01E-03
226150_at	PPAPDC1B	8.1678	8.6430	8.9384	7.7536	0.4752	0.7706	-0.8300	-0.4142	2.09E-01	9.76E-02	9.72E-03	2.68E-01	5.84E-01	5.16E-01	6.55E-01	6.07E-01
240841_at	INSM2	5.7349	6.5048	5.3063	6.9484	0.7699	-0.4287	0.4361	1.2134	3.14E-03	4.89E-02	1.03E-02	1.75E-04	1.01E-01	4.93E-01	6.55E-01	1.54E-02
224504_s_at	BUD13	8.4377	7.5877	7.5997	7.7062	-0.8501	-0.8380	0.4783	-0.7315	4.46E-03	4.82E-03	1.44E-02	9.81E-03	1.15E-01	2.28E-01	6.55E-01	1.24E-01
225582_at	ITPRIP	7.4804	6.8924	6.7466	6.9174	-0.5880	-0.7338	0.3794	-0.5629	2.33E-02	8.19E-03	3.40E-02	2.80E-02	2.47E-01	2.78E-01	6.55E-01	2.15E-01
229579_s_at	DISP2	5.8488	7.8715	5.6304	6.2203	2.0227	-0.2184	-0.7164	0.3715	6.55E-07	1.69E-01	1.11E-04	3.30E-02	2.57E-03	5.90E-01	6.55E-01	2.36E-01
228437_at	YIF1B	10.3487	11.1643	9.8922	9.6934	0.8156	-0.4565	-0.5072	-0.6552	4.54E-03	6.06E-02	8.95E-03	1.39E-02	1.16E-01	5.20E-01	6.55E-01	1.50E-01
225030_at	BOD1	7.6856	7.4722	8.2632	7.7243	-0.2134	0.5776	-0.1627	0.0388	3.15E-02	1.07E-04	2.29E-02	6.49E-01	2.84E-01	6.25E-02	6.55E-01	7.90E-01
226763_at	SESTD1	7.0952	7.1718	6.0260	7.0711	-0.0766	-1.0693	0.4843	-0.0241	8.00E-01	6.41E-03	4.27E-02	9.36E-01	7.86E-01	2.57E-01	6.55E-01	8.45E-01
236730_at	GIPC3	7.7630	6.4181	7.0679	6.5298	-1.3449	-0.6950	0.4034	-1.2331	4.07E-04	1.72E-02	3.94E-02	7.17E-04	4.26E-02	3.56E-01	6.55E-01	3.00E-02
231835_at	C1orf93	6.2243	7.4589	6.7084	7.0208	1.2346	-0.4840	-0.4611	0.7965	1.96E-03	1.14E-01	4.41E-02	1.94E-02	8.13E-02	5.80E-01	6.55E-01	1.79E-01
225903_at	PIGU	9.4421	8.7980	8.2320	8.2557	-0.6440	-1.2100	0.3338	-1.1864	1.14E-02	2.78E-04	4.36E-02	3.18E-04	1.75E-01	8.75E-02	6.55E-01	2.14E-02
226051_at	SELM	6.9262	8.8471	6.7386	7.6053	1.9209	-0.1876	-0.5271	0.1691	2.57E-04	5.61E-01	4.25E-02	5.94E-02	3.52E-02	6.72E-01	6.55E-01	3.10E-01
217559_at	RPL10L	5.7751	6.4387	6.6357	6.4043	0.6637	0.8607	-0.4476	0.6292	2.84E-03	5.75E-04	3.72E-03	3.84E-03	9.54E-02	9.66E-02	6.55E-01	7.49E-02
228551_at	DENND5B	5.8680	6.5565	6.0709	6.1383	0.6885	0.2029	-0.3105	0.2703	6.61E-03	3.15E-01	4.89E-02	1.91E-01	1.36E-01	6.05E-01	6.55E-01	5.36E-01
230769_at	DENND2C	8.7712	9.7462	10.5809	10.0308	0.9750	1.8097	-0.7625	1.2596	2.81E-02	1.09E-03	1.81E-02	8.59E-03	2.70E-01	1.23E-01	6.55E-01	1.16E-01
225312_at	COMMD6	10.4011	11.7828	11.9269	11.9378	1.3817	1.5258	-0.6854	1.5367	2.43E-03	1.34E-03	1.57E-02	1.28E-03	8.86E-02	1.38E-01	6.55E-01	4.11E-02
1552664_at	FLCN	7.1245	7.8933	7.3602	7.0736	0.7688	0.2358	-0.5277	-0.0508	6.98E-03	3.02E-01	8.14E-03	8.18E-01	1.39E-01	6.03E-01	6.55E-01	8.26E-01
225832_s_at	DAGLB	7.1900	6.5771	6.3340	6.6765	-0.6129	-0.8560	0.4777	-0.5135	1.41E-02	2.39E-03	8.74E-03	3.07E-02	1.96E-01	1.76E-01	6.55E-01	2.26E-01
222988_s_at	TMEM9	10.6112	10.7152	9.8248	10.5151	0.1039	-0.7865	0.2932	-0.0961	5.49E-01	1.48E-03	3.73E-02	5.79E-01	7.32E-01	1.45E-01	6.55E-01	7.69E-01
226739_at	RNF169	8.2542	7.5164	8.0187	8.0128	-0.7378	-0.2355	0.3660	-0.2413	4.83E-03	2.53E-01	2.68E-02	2.43E-01	1.18E-01	5.98E-01	6.55E-01	5.89E-01
227325_at	PRR24	6.7129	7.6950	6.9486	7.3261	0.9821	0.2358	-0.3023	0.6132	1.06E-04	1.29E-01	1.53E-02	2.26E-03	2.37E-02	5.80E-01	6.55E-01	5.54E-02
224298_s_at	UBAC2	9.9945	9.5692	9.0158	9.5234	-0.4254	-0.9787	0.4665	-0.4711	9.69E-02	2.52E-03	1.94E-02	7.08E-02	4.40E-01	1.82E-01	6.55E-01	3.38E-01
231056_at	LOC339352	6.3540	6.7788	6.9443	6.6107	0.4248	0.5903	-0.3792	-0.2587	3.26E-02	7.12E-03	1.16E-02	1.58E-01	2.87E-01	2.65E-01	6.55E-01	4.95E-01
221944_at	FLJ42627	7.4131	6.2811	7.5341	7.1244	-1.1319	0.1211	-0.3611	-0.2867	5.89E-04	5.74E-01	3.86E-02	2.00E-01	4.78E-02	6.76E-01	6.55E-01	5.44E-01
224597_at	LOC647979	9.4984	9.8285	10.1306	10.0966	0.3301	0.6322	-0.1821	0.5982	3.90E-03	5.87E-05	1.41E-02	8.70E-05	1.07E-01	6.25E-02	6.55E-01	1.19E-02
212671_s_at	LOC731682	10.6374	12.1256	12.4693	12.9179	1.4883	1.8319	-0.5198	2.2805	1.43E-03	3.81E-04	4.67E-02	8.49E-05	6.89E-02	8.75E-02	6.55E-01	1.18E-02
213360_s_at	POM121C	11.0730	10.3920	10.5297	10.5209	-0.6810	-0.5433	0.3361	-0.5521	6.32E-04	2.54E-03	5.38E-03	2.31E-03	4.85E-02	1.82E-01	6.55E-01	5.60E-02
244730_x_at	LOC100129195	5.2899	5.7570	5.8175	5.7903	0.4671	0.5276	-0.2471	0.5003	2.36E-03	1.13E-03	1.13E-02	1.56E-03	8.78E-02	1.26E-01	6.55E-01	4.52E-02
228482_s_at	TSTD1	9.7507	11.1970	10.9755	10.4767	1.4463	1.2248	-0.9726	0.7260	6.91E-04	1.94E-03	9.51E-04	2.78E-02	4.93E-02	1.62E-01	6.55E-01	2.14E-01
1568691_at	LOC100289203	6.7454	7.1402	7.1072	7.1364	0.3948	0.3618	-0.1828	0.3910	2.96E-04	5.26E-04	4.05E-03	3.15E-04	3.87E-02	9.40E-02	6.55E-01	2.14E-02
240173_at	Hs.102572	7.6833	7.0948	7.0064	7.3568	-0.5885	-0.6769	0.4694	-0.3265	2.37E-03	1.01E-03	1.14E-03	4.14E-02	8.78E-02	1.19E-01	6.55E-01	2.63E-01
239866_at	Hs.119940	6.1173	8.0676	7.1247	7.7977	1.9503	1.0073	-0.6386	1.6804	8.54E-04	2.84E-02	4.36E-02	2.13E-03	5.50E-02	4.10E-01	6.55E-01	5.35E-02
238573_at	Hs.194081	7.0490	7.7392	7.5674	7.5534	0.6903	0.5185	-0.3521	0.5044	3.18E-03	1.42E-02	1.71E-02	1.61E-02	1.02E-01	3.23E-01	6.55E-01	1.82E-01
227319_at	Hs.222731	7.2007	8.1652	8.0072	7.9459	0.9645	0.8065	-0.5129	0.7453	1.29E-03	3.71E-03	6.61E-03	5.72E-03	6.53E-02	2.08E-01	6.55E-01	9.37E-02
230127_at	Hs.232417	5.7704	7.0929	7.8663	7.4322	1.3225	2.0959	-0.8783	1.6618	8.47E-03	5.77E-04	1.16E-02	2.42E-03	1.53E-01	9.66E-02	6.55E-01	5.73E-02
229810_at	Hs.391527	5.0127	6.3885	5.4735	5.4592	1.3757	0.4608	-0.6950	0.4465	5.25E-03	2.39E-01	2.65E-02	2.53E-01	1.22E-01	5.97E-01	6.55E-01	5.96E-01
229833_at	Hs.422967	6.8524	7.2766	7.5116	7.5711	0.4242	0.6592	-0.1824	0.7187	4.51E-03	2.99E-04	4.49E-02	1.66E-04	1.15E-01	8.75E-02	6.55E-01	1.54E-02
236113_at	Hs.436047	4.7714	6.7666	5.6683	6.8955	1.9952	0.8969	-0.3840	2.1241	5.32E-06	1.38E-03	2.00E-02	3.32E-06	6.96E-03	1.38E-01	6.55E-01	3.13E-03
229303_at	Hs.471011	6.1618	5.8737	6.8785	6.1576	-0.2881	0.7166	-0.2164	-0.0042	4.87E-02	4.16E-04	3.89E-02	9.74E-01	3.40E-01	8.75E-02	6.55E-01</	

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
201710_at	MYBL2	Blue	133.74	88.49	1.00	Yes
235572_at	SPC24	Blue	137.76	82.86	0.94	Yes
202068_s_at	LDLR	Blue	138.66	80.74	0.91	Yes
204126_s_at	CDC45L	Blue	140.53	79.75	0.90	Yes
211058_x_at	TUBA1B	Blue	147.89	78.77	0.89	Yes
228361_at	E2F2	Blue	134.73	76.89	0.87	Yes
212141_at	MCM4	Blue	150.55	76.31	0.86	Yes
202580_x_at	FOXM1	Blue	126.30	76.21	0.86	Yes
205167_s_at	CDC25C	Blue	120.14	75.34	0.85	Yes
226550_at	Hs.91389	Blue	112.37	75.26	0.85	Yes
201195_s_at	SLC7A5	Blue	131.70	74.82	0.85	Yes
212949_at	NCAPH	Blue	112.11	74.43	0.84	Yes
204695_at	CDC25A	Blue	152.00	73.12	0.83	Yes
201137_s_at	HLA-DPB1	Blue	121.20	71.87	0.81	Yes
223307_at	CDCA3	Blue	124.07	71.57	0.81	Yes
200886_s_at	PGAM1	Blue	112.03	69.15	0.78	Yes
209408_at	KIF2C	Blue	102.74	68.55	0.77	Yes
209251_x_at	TUBA1C	Blue	125.14	68.37	0.77	Yes
208079_s_at	STK6	Blue	117.47	68.16	0.77	Yes
205024_s_at	RAD51	Blue	99.62	67.84	0.77	Yes
224753_at	CDCA5	Blue	92.87	67.20	0.76	Yes
212801_at	CIT	Blue	99.49	65.74	0.74	Yes
227212_s_at	PHF19	Blue	97.80	64.57	0.73	Yes
203145_at	SPAG5	Blue	140.52	64.48	0.73	Yes
226060_at	RFT1	Blue	178.59	64.47	0.73	Yes
205519_at	WDR76	Blue	114.54	64.33	0.73	Yes
218741_at	CENPM	Blue	143.50	63.44	0.72	Yes
219911_s_at	SLCO4A1	Blue	104.03	63.19	0.71	Yes
201275_at	FDPS	Blue	120.48	62.74	0.71	Yes
1552256_a_at	SCARB1	Blue	107.85	61.47	0.69	Yes
217478_s_at	HLA-DMA	Blue	156.39	61.38	0.69	Yes
209728_at	HLA-DRB4	Blue	119.29	61.19	0.69	Yes
227121_at	Hs.193784	Blue	149.60	60.95	0.69	Yes
225143_at	SFXN4	Blue	111.57	60.92	0.69	Yes
38158_at	ESPL1	Blue	106.84	60.69	0.69	Yes
217362_x_at	HLA-DRB6	Blue	105.09	60.56	0.68	Yes
211654_x_at	HLA-DQB1	Blue	88.47	60.43	0.68	Yes
212021_s_at	MKI67	Blue	106.56	60.29	0.68	Yes
208306_x_at	HLA-DRB1	Blue	100.86	60.27	0.68	Yes
204178_s_at	RBM14	Blue	157.89	59.90	0.68	Yes
203276_at	LMNB1	Blue	113.49	59.59	0.67	Yes
209773_s_at	RRM2	Blue	125.17	59.54	0.67	Yes
202240_at	PLK1	Blue	105.35	59.36	0.67	Yes
200832_s_at	SCD	Blue	89.82	59.04	0.67	Yes
209312_x_at	LOC100294276	Blue	104.01	58.42	0.66	Yes
202107_s_at	MCM2	Blue	133.49	58.25	0.66	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
230021_at	C15orf42	Blue	115.36	57.29	0.65	Yes
202183_s_at	KIF22	Blue	91.78	56.88	0.64	Yes
218726_at	HJURP	Blue	146.42	56.68	0.64	Yes
233068_at	Hs.634293	Blue	118.49	56.67	0.64	Yes
225059_at	AGTRAP	Blue	97.59	56.43	0.64	Yes
238508_at	DBF4B	Blue	153.96	56.30	0.64	Yes
202705_at	CCNB2	Blue	116.53	56.15	0.63	Yes
234973_at	SLC38A5	Blue	115.85	56.14	0.63	Yes
243312_at	ZNF107	Blue	137.88	55.97	0.63	Yes
208308_s_at	GPI	Blue	107.94	54.98	0.62	Yes
209208_at	MPDU1	Blue	118.23	54.90	0.62	Yes
203046_s_at	TIMELESS	Blue	73.15	54.47	0.62	Yes
208969_at	NDUFA9	Blue	93.77	54.03	0.61	Yes
203696_s_at	RFC2	Blue	93.17	53.89	0.61	Yes
219556_at	C16orf59	Blue	92.95	53.87	0.61	Yes
224756_s_at	BAT5	Blue	160.41	53.85	0.61	Yes
225777_at	C9orf140	Blue	92.83	53.79	0.61	Yes
212671_s_at	LOC731682	Blue	101.46	53.45	0.60	Yes
206435_at	B4GALNT1	Blue	85.68	53.30	0.60	Yes
213787_s_at	EBP	Blue	98.90	69.15	0.78	No
218459_at	TOR3A	Blue	114.37	61.28	0.69	No
212295_s_at	SLC7A1	Blue	82.42	58.22	0.66	No
218619_s_at	SUV39H1	Blue	107.43	58.22	0.66	No
221274_s_at	LMAN2L	Blue	87.78	58.00	0.66	No
212083_at	TEX261	Blue	106.26	56.73	0.64	No
202528_at	GALE	Blue	90.37	52.71	0.60	No
227165_at	SKA3	Blue	85.48	52.52	0.59	No
202954_at	UBE2C	Blue	86.94	52.43	0.59	No
224839_s_at	GPT2	Blue	123.24	51.76	0.58	No
57163_at	ELOVL1	Blue	95.85	51.59	0.58	No
204079_at	TPST2	Blue	88.19	51.58	0.58	No
224576_at	ERGIC1	Blue	85.85	51.45	0.58	No
212765_at	CAMSAP1L1	Blue	108.45	51.43	0.58	No
204033_at	TRIP13	Blue	116.22	50.71	0.57	No
216237_s_at	MCM5	Blue	151.53	50.63	0.57	No
224706_at	KIAA2013	Blue	96.33	50.49	0.57	No
207332_s_at	TFRC	Blue	77.32	50.48	0.57	No
200795_at	SPARCL1	Blue	80.68	50.46	0.57	No
205436_s_at	H2AFX	Blue	155.75	50.40	0.57	No
1554520_at	LOC283861	Blue	77.67	50.39	0.57	No
212789_at	NCAPD3	Blue	112.02	49.94	0.56	No
203564_at	FANCG	Blue	70.47	49.71	0.56	No
218308_at	TACC3	Blue	101.48	49.65	0.56	No
235434_at	Hs.442623	Blue	83.35	49.49	0.56	No
216650_at	216650_at	Blue	76.68	49.11	0.56	No
238670_at	RAD18	Blue	106.44	48.71	0.55	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	k _{IN}	k _{IN_{sc}}	Is hub
203968_s_at	CDC6	Blue	90.55	47.51	0.54	No
218159_at	DDR GK1	Blue	96.14	47.46	0.54	No
220840_s_at	C1orf112	Blue	68.19	47.26	0.53	No
229202_at	Hs.598463	Blue	142.10	47.07	0.53	No
229833_at	Hs.422967	Blue	79.18	46.92	0.53	No
204558_at	RAD54L	Blue	73.73	46.71	0.53	No
234672_s_at	TMEM48	Blue	68.06	46.65	0.53	No
227579_at	Hs.107418	Blue	102.82	46.54	0.53	No
202870_s_at	CDC20	Blue	79.89	46.25	0.52	No
200650_s_at	LDHA	Blue	99.48	45.73	0.52	No
236312_at	Hs.44380	Blue	79.02	45.52	0.51	No
201250_s_at	SLC2A1	Blue	149.05	45.42	0.51	No
223277_at	C3orf75	Blue	107.03	45.08	0.51	No
218782_s_at	ATAD2	Blue	67.47	44.67	0.50	No
226250_at	Hs.202577	Blue	89.88	44.49	0.50	No
209777_s_at	SLC19A1	Blue	119.23	44.33	0.50	No
204441_s_at	POLA2	Blue	89.16	44.16	0.50	No
220651_s_at	MCM10	Blue	89.97	43.69	0.49	No
204962_s_at	CENPA	Blue	100.15	43.36	0.49	No
220495_s_at	TXNDC15	Blue	114.15	43.36	0.49	No
203408_s_at	SATB1	Blue	137.75	43.13	0.49	No
219082_at	AMDHD2	Blue	96.68	42.67	0.48	No
226508_at	PHC3	Blue	100.63	42.14	0.48	No
209279_s_at	NSDHL	Blue	98.65	41.26	0.47	No
236546_at	Hs.659967	Blue	99.91	40.75	0.46	No
209002_s_at	CALCOCO1	Blue	103.15	40.27	0.46	No
205733_at	BLM	Blue	61.67	39.28	0.44	No
204775_at	CHAF1B	Blue	78.67	38.42	0.43	No
242826_at	Hs.594851	Blue	85.52	37.73	0.43	No
202433_at	SLC35B1	Blue	68.71	37.24	0.42	No
224597_at	LOC647979	Blue	58.59	36.22	0.41	No
229164_s_at	ABTB1	Blue	63.31	33.10	0.37	No
239066_at	Hs.521782	Blue	53.75	32.62	0.37	No
238470_at	DBNDD2	Blue	44.31	28.83	0.33	No
218898_at	FAM57A	Darkgreen	173.38	94.71	1.00	Yes
201306_s_at	ANP32B	Darkgreen	188.23	92.24	0.97	Yes
200896_x_at	HDGF	Darkgreen	208.30	90.24	0.95	Yes
219324_at	NOL12	Darkgreen	159.30	85.15	0.90	Yes
243635_at	Hs.46669	Darkgreen	150.96	84.71	0.89	Yes
204469_at	PTPRZ1	Darkgreen	172.88	84.70	0.89	Yes
217099_s_at	GEMIN4	Darkgreen	133.45	83.72	0.88	Yes
236077_at	GANC	Darkgreen	134.58	83.54	0.88	Yes
210448_s_at	P2RX5	Darkgreen	173.43	82.46	0.87	Yes
226319_s_at	THOC4	Darkgreen	152.06	82.45	0.87	Yes
208117_s_at	LAS1L	Darkgreen	163.84	80.82	0.85	Yes
217179_x_at	Hs.654512	Darkgreen	148.98	80.16	0.85	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
203857_s_at	PDIA5	Darkgreen	149.03	78.55	0.83	Yes
227160_s_at	C20orf7	Darkgreen	126.24	78.11	0.82	Yes
229715_at	Hs.146274	Darkgreen	167.41	77.77	0.82	Yes
241937_s_at	WDR4	Darkgreen	140.41	77.59	0.82	Yes
205238_at	TRMT2B	Darkgreen	196.36	77.58	0.82	Yes
218560_s_at	JMJD4	Darkgreen	152.81	77.17	0.81	Yes
229302_at	TMEM178	Darkgreen	148.54	76.95	0.81	Yes
211714_x_at	TUBB	Darkgreen	146.38	76.92	0.81	Yes
1557744_at	Hs.636574	Darkgreen	124.80	76.62	0.81	Yes
202478_at	TRIB2	Darkgreen	126.37	76.33	0.81	Yes
212871_at	MAPKAPK5	Darkgreen	119.19	76.19	0.80	Yes
233817_at	Hs.380390	Darkgreen	142.28	74.85	0.79	Yes
229332_at	HPDL	Darkgreen	200.64	74.75	0.79	Yes
208668_x_at	HMG2	Darkgreen	142.86	73.45	0.78	Yes
200790_at	ODC1	Darkgreen	111.49	73.11	0.77	Yes
206310_at	SPINK2	Darkgreen	141.87	72.28	0.76	Yes
211026_s_at	MGLL	Darkgreen	114.61	71.23	0.75	Yes
206499_s_at	RCC1	Darkgreen	123.66	70.75	0.75	Yes
204123_at	LIG3	Darkgreen	121.89	70.65	0.75	Yes
202417_at	KEAP1	Darkgreen	165.48	70.47	0.74	Yes
201491_at	AHSA1	Darkgreen	113.83	70.18	0.74	Yes
226833_at	CYB5D1	Darkgreen	137.56	70.02	0.74	Yes
207877_s_at	NVL	Darkgreen	131.37	69.28	0.73	Yes
211725_s_at	BID	Darkgreen	137.52	69.02	0.73	Yes
218156_s_at	TSR1	Darkgreen	131.69	68.94	0.73	Yes
200957_s_at	SSRP1	Darkgreen	120.50	68.93	0.73	Yes
229388_at	TTC18	Darkgreen	164.97	68.82	0.73	Yes
226059_at	TOMM40L	Darkgreen	118.78	68.58	0.72	Yes
204639_at	ADA	Darkgreen	161.19	68.17	0.72	Yes
226610_at	CENPV	Darkgreen	103.13	68.03	0.72	Yes
208644_at	PARP1	Darkgreen	145.93	67.96	0.72	Yes
219366_at	AVEN	Darkgreen	116.92	67.76	0.72	Yes
205432_at	OVGP1	Darkgreen	117.56	67.53	0.71	Yes
224966_s_at	DUS3L	Darkgreen	121.94	67.42	0.71	Yes
1552257_a_at	TTLL12	Darkgreen	136.33	67.39	0.71	Yes
224970_at	NFIA	Darkgreen	181.87	67.39	0.71	Yes
1552607_at	NCRNA00204	Darkgreen	135.13	67.04	0.71	Yes
222640_at	DNMT3A	Darkgreen	106.91	66.63	0.70	Yes
240586_at	ENAM	Darkgreen	120.62	66.41	0.70	Yes
236595_at	Hs.664789	Darkgreen	198.30	65.62	0.69	Yes
215416_s_at	STOML2	Darkgreen	113.83	65.58	0.69	Yes
239081_at	Hs.534870	Darkgreen	157.36	64.86	0.68	Yes
225024_at	RPRD1B	Darkgreen	99.71	64.82	0.68	Yes
229054_at	C14orf181	Darkgreen	159.69	64.57	0.68	Yes
224626_at	SLC35A4	Darkgreen	124.41	64.33	0.68	Yes
1556195_a_at	Hs.634086	Darkgreen	164.70	63.87	0.67	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
218774_at	DCPS	Darkgreen	99.43	63.79	0.67	Yes
226132_s_at	MANEAL	Darkgreen	122.96	63.76	0.67	Yes
202613_at	CTPS	Darkgreen	110.89	63.66	0.67	Yes
209418_s_at	THOC5	Darkgreen	110.42	63.32	0.67	Yes
221188_s_at	CIDEB	Darkgreen	149.96	63.08	0.67	Yes
225682_s_at	POLR3H	Darkgreen	108.27	62.66	0.66	Yes
229655_at	FAM19A5	Darkgreen	158.67	61.76	0.65	Yes
227249_at	Hs.567518	Darkgreen	94.64	61.51	0.65	Yes
229822_at	Hs.437857	Darkgreen	110.94	61.22	0.65	Yes
205320_at	APC2	Darkgreen	122.69	61.12	0.65	Yes
200895_s_at	FKBP4	Darkgreen	105.23	60.61	0.64	Yes
200820_at	PSMD8	Darkgreen	106.62	60.15	0.64	Yes
222801_s_at	STAG3L4	Darkgreen	94.09	60.05	0.63	Yes
200793_s_at	ACO2	Darkgreen	124.29	59.86	0.63	Yes
223308_s_at	WDR5	Darkgreen	106.97	59.85	0.63	Yes
219111_s_at	DDX54	Darkgreen	109.88	59.83	0.63	Yes
200966_x_at	ALDOA	Darkgreen	121.06	59.77	0.63	Yes
221795_at	NTRK2	Darkgreen	145.63	59.62	0.63	Yes
223296_at	SLC25A33	Darkgreen	91.11	59.43	0.63	Yes
224849_at	TTC17	Darkgreen	120.64	58.98	0.62	Yes
229226_at	Hs.655509	Darkgreen	158.82	58.71	0.62	Yes
204305_at	MIPEP	Darkgreen	102.92	58.15	0.61	Yes
218795_at	ACP6	Darkgreen	93.65	57.95	0.61	Yes
227193_at	Hs.375762	Darkgreen	162.25	57.71	0.61	Yes
222659_at	IPO11	Darkgreen	92.19	57.48	0.61	Yes
211444_at	Hs.679409	Darkgreen	93.48	57.43	0.61	Yes
206838_at	TBX19	Darkgreen	136.39	57.38	0.61	Yes
228175_at	Hs.4749	Darkgreen	162.78	79.68	0.84	No
206752_s_at	DFFB	Darkgreen	153.31	68.97	0.73	No
231093_at	FCRL3	Darkgreen	146.43	68.02	0.72	No
203329_at	PTPRM	Darkgreen	142.81	67.94	0.72	No
200789_at	ECH1	Darkgreen	118.28	65.67	0.69	No
200687_s_at	SF3B3	Darkgreen	105.74	64.91	0.69	No
226004_at	CABLES2	Darkgreen	116.01	63.85	0.67	No
205164_at	GCAT	Darkgreen	138.64	63.57	0.67	No
208676_s_at	PA2G4	Darkgreen	142.64	62.36	0.66	No
1554954_at	C21orf90	Darkgreen	116.76	61.92	0.65	No
1553746_a_at	C12orf64	Darkgreen	166.42	61.41	0.65	No
204153_s_at	MFNG	Darkgreen	166.80	60.81	0.64	No
204066_s_at	AGAP1	Darkgreen	107.57	60.77	0.64	No
213720_s_at	SMARCA4	Darkgreen	147.29	60.70	0.64	No
227342_s_at	MYEOV	Darkgreen	116.92	60.43	0.64	No
204415_at	IFI6	Darkgreen	155.83	60.07	0.63	No
1554599_x_at	GTF2H3	Darkgreen	97.76	59.82	0.63	No
235452_at	Hs.663935	Darkgreen	122.68	59.32	0.63	No
205512_s_at	AIFM1	Darkgreen	112.22	58.55	0.62	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
229356_x_at	INO80	Darkgreen	105.70	57.95	0.61	No
221746_at	UBL4A	Darkgreen	92.72	57.22	0.60	No
200701_at	NPC2	Darkgreen	122.19	56.67	0.60	No
221247_s_at	WBSCR16	Darkgreen	97.33	56.60	0.60	No
212527_at	PPPDE2	Darkgreen	90.37	56.50	0.60	No
213828_x_at	H3F3A	Darkgreen	165.46	56.48	0.60	No
213546_at	DKFZP58611420	Darkgreen	90.87	56.36	0.60	No
221216_s_at	SCMH1	Darkgreen	95.06	56.04	0.59	No
203006_at	INPP5A	Darkgreen	101.51	55.93	0.59	No
229754_at	Hs.586059	Darkgreen	126.37	55.92	0.59	No
236099_at	Hs.158951	Darkgreen	148.18	55.71	0.59	No
208877_at	PAK2	Darkgreen	153.91	55.69	0.59	No
208970_s_at	UROD	Darkgreen	99.05	55.26	0.58	No
213160_at	DOCK2	Darkgreen	97.88	55.21	0.58	No
203912_s_at	DNASE1L1	Darkgreen	160.82	55.20	0.58	No
206809_s_at	HNRNPA3P1	Darkgreen	107.88	54.86	0.58	No
203812_at	Hs.552087	Darkgreen	139.58	54.73	0.58	No
226474_at	NLRC5	Darkgreen	150.48	54.71	0.58	No
222651_s_at	TRPS1	Darkgreen	97.39	54.67	0.58	No
226760_at	MBTPS2	Darkgreen	122.96	54.53	0.58	No
202934_at	HK2	Darkgreen	129.32	54.43	0.57	No
201277_s_at	HNRNPAB	Darkgreen	94.56	54.29	0.57	No
1555973_at	Hs.651497	Darkgreen	88.30	54.23	0.57	No
1552698_at	MGC16703	Darkgreen	125.67	53.95	0.57	No
204813_at	MAPK10	Darkgreen	96.42	53.93	0.57	No
212167_s_at	SMARCB1	Darkgreen	90.63	53.83	0.57	No
218966_at	MYO5C	Darkgreen	155.54	53.64	0.57	No
204795_at	PRR3	Darkgreen	86.32	52.78	0.56	No
201740_at	NDUFS3	Darkgreen	85.09	52.77	0.56	No
209725_at	UTP20	Darkgreen	111.85	52.44	0.55	No
235365_at	DFNB59	Darkgreen	89.42	52.43	0.55	No
209753_s_at	TMPO	Darkgreen	88.16	52.40	0.55	No
224451_x_at	ARHGAP9	Darkgreen	99.39	52.05	0.55	No
209262_s_at	NR2F6	Darkgreen	125.31	51.98	0.55	No
204549_at	IKBKE	Darkgreen	111.13	51.85	0.55	No
224954_at	SHMT1	Darkgreen	101.80	51.64	0.55	No
212186_at	ACACA	Darkgreen	134.71	51.62	0.55	No
222505_at	LMBR1	Darkgreen	87.66	51.50	0.54	No
204029_at	CELSR2	Darkgreen	105.21	51.47	0.54	No
241823_at	Hs.552162	Darkgreen	112.91	51.43	0.54	No
213632_at	DHODH	Darkgreen	96.60	51.14	0.54	No
238824_at	Hs.634964	Darkgreen	116.55	50.87	0.54	No
204016_at	LARS2	Darkgreen	93.53	50.76	0.54	No
227804_at	TLCD1	Darkgreen	88.82	50.66	0.53	No
205521_at	EXOG	Darkgreen	124.57	50.64	0.53	No
211337_s_at	TUBGCP4	Darkgreen	80.37	50.52	0.53	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
217499_x_at	MGC72080	Darkgreen	80.00	50.39	0.53	No
206452_x_at	PPP2R4	Darkgreen	139.12	50.37	0.53	No
224806_at	TRIM25	Darkgreen	89.36	50.32	0.53	No
218903_s_at	OBFC2B	Darkgreen	85.06	49.71	0.52	No
205356_at	USP13	Darkgreen	111.58	49.68	0.52	No
57082_at	LDLRAP1	Darkgreen	97.44	49.61	0.52	No
1558605_at	Hs.597446	Darkgreen	109.91	49.53	0.52	No
213334_x_at	HAUS7	Darkgreen	138.25	49.33	0.52	No
229921_at	KIF5A	Darkgreen	119.43	49.21	0.52	No
218915_at	NF2	Darkgreen	89.10	49.08	0.52	No
204080_at	TOE1	Darkgreen	100.24	49.00	0.52	No
219182_at	TMEM231	Darkgreen	169.86	48.50	0.51	No
235700_at	CT45A1	Darkgreen	110.11	48.33	0.51	No
215443_at	TSHR	Darkgreen	172.18	48.28	0.51	No
222212_s_at	LASS2	Darkgreen	101.67	48.23	0.51	No
218051_s_at	NT5DC2	Darkgreen	124.54	47.92	0.51	No
217791_s_at	ALDH18A1	Darkgreen	91.12	47.70	0.50	No
1555781_at	PQLC2	Darkgreen	102.31	47.49	0.50	No
216071_x_at	MED12	Darkgreen	105.29	47.43	0.50	No
225006_x_at	TH1L	Darkgreen	86.26	47.38	0.50	No
211177_s_at	TXNRD2	Darkgreen	90.01	47.37	0.50	No
209527_at	EXOSC2	Darkgreen	125.47	47.17	0.50	No
201970_s_at	NASP	Darkgreen	108.42	47.15	0.50	No
242273_at	Hs.175569	Darkgreen	132.24	47.08	0.50	No
236170_x_at	Hs.599851	Darkgreen	78.80	46.89	0.50	No
240249_at	Hs.657398	Darkgreen	143.47	46.46	0.49	No
210694_s_at	Hs.355664	Darkgreen	84.15	46.38	0.49	No
202159_at	FARSA	Darkgreen	77.06	46.23	0.49	No
219798_s_at	MEPCE	Darkgreen	82.57	46.23	0.49	No
223656_s_at	C1orf91	Darkgreen	108.48	46.11	0.49	No
206268_at	LEFTY1	Darkgreen	126.95	46.04	0.49	No
201770_at	SNRPA	Darkgreen	100.93	45.81	0.48	No
230949_at	SLC23A3	Darkgreen	109.48	45.78	0.48	No
220967_s_at	ZNF696	Darkgreen	83.54	45.75	0.48	No
219818_s_at	GPATCH1	Darkgreen	103.87	45.72	0.48	No
202474_s_at	HCFC1	Darkgreen	114.17	45.59	0.48	No
204744_s_at	IARS	Darkgreen	97.68	45.51	0.48	No
213848_at	DUSP7	Darkgreen	86.87	45.50	0.48	No
40273_at	SPHK2	Darkgreen	115.17	45.48	0.48	No
228445_at	AIFM2	Darkgreen	110.11	45.30	0.48	No
220148_at	ALDH8A1	Darkgreen	83.12	45.29	0.48	No
226475_at	FAM118A	Darkgreen	83.71	45.19	0.48	No
225606_at	BCL2L11	Darkgreen	108.43	44.95	0.47	No
1559002_at	LOC340544	Darkgreen	84.08	44.65	0.47	No
202916_s_at	FAM20B	Darkgreen	105.72	44.47	0.47	No
213370_s_at	SFMBT1	Darkgreen	70.33	44.37	0.47	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
223595_at	TMEM133	Darkgreen	116.57	44.27	0.47	No
206016_at	CCDC22	Darkgreen	83.43	44.16	0.47	No
201421_s_at	WDR77	Darkgreen	93.49	44.15	0.47	No
204928_s_at	SLC10A3	Darkgreen	82.89	44.09	0.47	No
213313_at	RABGAP1	Darkgreen	97.10	43.60	0.46	No
216952_s_at	LMNB2	Darkgreen	75.83	43.51	0.46	No
203654_s_at	COIL	Darkgreen	89.19	43.16	0.46	No
200807_s_at	HSPD1	Darkgreen	77.78	43.11	0.46	No
229587_at	Hs.511739	Darkgreen	106.33	42.99	0.45	No
201673_s_at	GYS1	Darkgreen	102.48	42.88	0.45	No
236875_at	Hs.648517	Darkgreen	73.71	42.75	0.45	No
224659_at	SEPN1	Darkgreen	109.87	42.57	0.45	No
203740_at	MPHOSPH6	Darkgreen	69.33	42.54	0.45	No
226032_at	CASP2	Darkgreen	84.64	42.41	0.45	No
224467_s_at	PDCD2L	Darkgreen	76.22	41.50	0.44	No
235483_at	Hs.598169	Darkgreen	157.73	41.39	0.44	No
240319_at	Hs.665272	Darkgreen	88.47	41.38	0.44	No
220449_at	MGC5566	Darkgreen	118.98	41.34	0.44	No
1554597_at	Hs.556108	Darkgreen	70.48	41.31	0.44	No
225311_at	IVD	Darkgreen	111.82	41.04	0.43	No
223532_at	ANKRD39	Darkgreen	72.25	40.88	0.43	No
202123_s_at	ABL1	Darkgreen	93.23	40.52	0.43	No
200630_x_at	SET	Darkgreen	65.55	40.33	0.43	No
207168_s_at	H2AFY	Darkgreen	95.34	40.10	0.42	No
227007_at	TMCO4	Darkgreen	111.96	39.63	0.42	No
218493_at	SNRNP25	Darkgreen	81.00	39.62	0.42	No
223306_at	EBPL	Darkgreen	83.38	39.61	0.42	No
230311_s_at	PRDM6	Darkgreen	118.48	39.44	0.42	No
1553703_at	ZNF791	Darkgreen	68.96	39.06	0.41	No
216996_s_at	FASTKD2	Darkgreen	90.31	38.85	0.41	No
212539_at	CHD1L	Darkgreen	91.00	38.78	0.41	No
218827_s_at	CEP192	Darkgreen	80.30	38.65	0.41	No
218913_s_at	GMIP	Darkgreen	75.56	38.37	0.41	No
35201_at	HNRNPL	Darkgreen	85.37	38.20	0.40	No
209846_s_at	BTN3A2	Darkgreen	81.91	38.01	0.40	No
208227_x_at	ADAM22	Darkgreen	94.12	37.31	0.39	No
225323_at	CC2D1B	Darkgreen	101.29	37.13	0.39	No
239277_at	Hs.648960	Darkgreen	85.30	36.95	0.39	No
1556102_x_at	LOC389906	Darkgreen	87.83	36.87	0.39	No
229286_at	MAGEE1	Darkgreen	92.64	36.85	0.39	No
202780_at	OXCT1	Darkgreen	100.68	36.54	0.39	No
205103_at	C1orf61	Darkgreen	82.60	36.27	0.38	No
64486_at	CORO1B	Darkgreen	79.35	35.55	0.38	No
226878_at	HLA-DOA	Darkgreen	107.42	35.03	0.37	No
226296_s_at	MRPS15	Darkgreen	70.24	34.87	0.37	No
217815_at	SUPT16H	Darkgreen	83.64	34.35	0.36	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
225531_at	CABLES1	Darkgreen	88.78	34.05	0.36	No
233568_x_at	CWF19L1	Darkgreen	51.95	33.44	0.35	No
1553993_s_at	MED25	Darkgreen	66.41	33.33	0.35	No
235455_at	FAM131C	Darkgreen	82.19	33.26	0.35	No
223113_at	TMEM138	Darkgreen	93.94	32.83	0.35	No
225695_at	C2orf18	Darkgreen	75.21	32.79	0.35	No
206074_s_at	HMGA1	Darkgreen	82.11	32.69	0.35	No
206339_at	CARTPT	Darkgreen	60.80	32.53	0.34	No
228159_at	Hs.46506	Darkgreen	91.44	32.11	0.34	No
217591_at	Hs.721360	Darkgreen	56.37	31.98	0.34	No
211951_at	NOLC1	Darkgreen	83.19	31.41	0.33	No
225150_s_at	RTKN	Darkgreen	83.66	31.11	0.33	No
224486_s_at	C15orf41	Darkgreen	68.63	30.43	0.32	No
228318_s_at	CRIPAK	Darkgreen	61.63	27.26	0.29	No
212256_at	GALNT10	Orange	139.69	23.64	0.97	Yes
205066_s_at	ENPP1	Orange	84.40	23.42	0.96	Yes
209906_at	C3AR1	Orange	89.66	23.35	0.96	Yes
210124_x_at	SEMA4F	Orange	96.07	21.99	0.90	Yes
205141_at	ANG	Orange	147.96	21.36	0.88	Yes
201061_s_at	STOM	Orange	88.83	21.21	0.87	Yes
206046_at	ADAM23	Orange	64.18	20.96	0.86	Yes
234513_at	ELOVL3	Orange	104.98	20.83	0.85	Yes
228752_at	EFCAB4B	Orange	136.93	18.36	0.75	Yes
225369_at	ESAM	Orange	100.83	16.87	0.69	Yes
206453_s_at	NDRG2	Orange	76.66	16.15	0.66	Yes
205569_at	LAMP3	Orange	116.75	15.25	0.63	Yes
224818_at	SORT1	Orange	65.60	24.39	1.00	No
213234_at	KIAA1467	Orange	93.63	23.64	0.97	No
226879_at	HVCN1	Orange	52.52	21.53	0.88	No
211237_s_at	FGFR4	Orange	70.86	21.29	0.87	No
218900_at	CNNM4	Orange	64.82	20.31	0.83	No
225499_at	Hs.593067	Orange	82.57	18.40	0.75	No
219702_at	PLAC1	Orange	69.22	18.34	0.75	No
223233_s_at	CGN	Orange	51.70	18.18	0.75	No
219745_at	TMEM180	Orange	79.22	17.89	0.73	No
211704_s_at	SPIN2B	Orange	46.73	17.50	0.72	No
219513_s_at	SH2D3A	Orange	40.35	17.25	0.71	No
205291_at	IL2RB	Orange	80.57	17.08	0.70	No
1553099_at	TIGD1	Orange	73.86	16.29	0.67	No
212169_at	FKBP9	Orange	68.12	15.73	0.65	No
207035_at	SLC30A3	Orange	42.63	15.63	0.64	No
227250_at	KREMEN1	Orange	52.36	15.39	0.63	No
210074_at	CTSL2	Orange	41.31	15.32	0.63	No
232781_at	Hs.596272	Orange	66.12	15.31	0.63	No
201887_at	IL13RA1	Orange	39.97	13.89	0.57	No
238590_x_at	TMEM107	Orange	48.20	13.73	0.56	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
229380_at	Hs.444835	Orange	152.83	13.23	0.54	No
223158_s_at	NEK6	Orange	52.61	12.88	0.53	No
208926_at	NEU1	Red	64.07	33.13	1.00	Yes
224742_at	ABHD12	Red	61.31	32.09	0.97	Yes
206219_s_at	VAV1	Red	54.98	30.83	0.93	Yes
210587_at	INHBE	Red	84.40	30.79	0.93	Yes
201361_at	TMEM109	Red	43.86	30.01	0.91	Yes
204019_s_at	SH3YL1	Red	45.19	29.24	0.88	Yes
225898_at	WDR54	Red	43.33	29.01	0.88	Yes
205464_at	SCNN1B	Red	56.21	28.76	0.87	Yes
224727_at	C19orf63	Red	56.47	28.64	0.86	Yes
201791_s_at	DHCR7	Red	81.31	28.53	0.86	Yes
200652_at	SSR2	Red	42.51	28.43	0.86	Yes
218529_at	CD320	Red	51.57	28.07	0.85	Yes
201771_at	SCAMP3	Red	59.86	28.06	0.85	Yes
203234_at	UPP1	Red	47.99	27.21	0.82	Yes
225903_at	PIGU	Red	71.98	26.75	0.81	Yes
205801_s_at	RASGRP3	Red	77.33	26.17	0.79	Yes
202830_s_at	SLC37A4	Red	52.53	26.03	0.79	Yes
208635_x_at	NACA	Red	50.42	25.19	0.76	Yes
1567080_s_at	CLN6	Red	54.78	24.82	0.75	Yes
209680_s_at	KIFC1	Red	65.82	24.78	0.75	Yes
224886_at	JMJD8	Red	39.84	24.73	0.75	Yes
228531_at	SAMD9	Red	44.44	22.96	0.69	Yes
205297_s_at	CD79B	Red	56.76	22.78	0.69	Yes
209921_at	SLC7A11	Red	59.43	21.91	0.66	Yes
221658_s_at	IL21R	Red	46.66	21.39	0.65	Yes
218473_s_at	GLT25D1	Red	35.94	20.81	0.63	Yes
215128_at	Hs.191828	Red	65.93	20.48	0.62	Yes
231807_at	KIAA1217	Red	62.72	29.35	0.89	No
229130_at	Hs.400256	Red	54.38	27.04	0.82	No
203679_at	TMED1	Red	63.56	26.40	0.80	No
203452_at	B3GAT3	Red	40.86	24.95	0.75	No
209863_s_at	TP63	Red	35.58	24.80	0.75	No
36994_at	ATP6V0C	Red	67.79	23.97	0.72	No
206656_s_at	C20orf3	Red	35.74	23.78	0.72	No
225592_at	NRM	Red	35.85	23.50	0.71	No
202308_at	SREBF1	Red	38.78	23.48	0.71	No
225212_at	SLC25A25	Red	39.37	23.44	0.71	No
224859_at	CD276	Red	35.21	23.42	0.71	No
212858_at	PAQR4	Red	37.20	21.90	0.66	No
220690_s_at	DHRS7B	Red	51.71	21.73	0.66	No
209420_s_at	SMPD1	Red	40.18	20.61	0.62	No
203045_at	NINJ1	Red	44.52	20.39	0.62	No
207641_at	TNFRSF13B	Red	37.63	20.27	0.61	No
223917_s_at	SLC39A3	Red	33.25	19.87	0.60	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
204088_at	P2RX4	Red	50.01	19.81	0.60	No
200078_s_at	ATP6V0B	Red	34.05	19.68	0.59	No
226088_at	ZDHHC12	Red	38.70	19.52	0.59	No
221927_s_at	ABHD11	Red	37.78	19.43	0.59	No
238568_s_at	Hs.662710	Red	40.11	19.42	0.59	No
233095_at	Hs.272208	Red	38.70	19.21	0.58	No
213448_at	Hs.656252	Red	29.00	17.89	0.54	No
208837_at	TMED3	Red	35.88	17.80	0.54	No
201625_s_at	INSIG1	Red	64.93	17.40	0.53	No
238009_at	Hs.434948	Red	24.97	16.97	0.51	No
209190_s_at	DIAPH1	Red	29.85	16.94	0.51	No
203188_at	B3GNT1	Red	25.23	16.50	0.50	No
226584_s_at	FAM110A	Red	30.74	16.50	0.50	No
218143_s_at	SCAMP2	Red	39.71	16.04	0.48	No
238485_at	Hs.656245	Red	37.14	15.99	0.48	No
203040_s_at	HMBS	Red	37.65	15.85	0.48	No
230769_at	DENND2C	Red	31.05	15.26	0.46	No
238492_at	Hs.597376	Red	22.21	14.81	0.45	No
230187_s_at	Hs.484967	Red	29.98	14.79	0.45	No
1568596_a_at	TROAP	Red	34.95	14.71	0.44	No
208583_x_at	HIST1H2AJ	Red	25.17	14.54	0.44	No
203554_x_at	PTTG1	Red	25.44	14.33	0.43	No
209083_at	CORO1A	Red	53.40	13.19	0.40	No
209350_s_at	GPS2	Springgreen	196.00	169.57	1.00	Yes
212419_at	ZCCHC24	Springgreen	208.23	168.47	0.99	Yes
230033_at	C19orf51	Springgreen	197.93	166.85	0.98	Yes
200696_s_at	GSN	Springgreen	198.10	166.24	0.98	Yes
206737_at	WNT11	Springgreen	200.34	164.58	0.97	Yes
218928_s_at	SLC37A1	Springgreen	202.68	162.36	0.96	Yes
203879_at	PIK3CD	Springgreen	183.13	160.11	0.94	Yes
219825_at	CYP26B1	Springgreen	187.96	158.20	0.93	Yes
222236_s_at	ASAP3	Springgreen	185.95	156.99	0.93	Yes
204546_at	KIAA0513	Springgreen	177.71	155.72	0.92	Yes
208056_s_at	CBFA2T3	Springgreen	198.74	154.56	0.91	Yes
218032_at	SNN	Springgreen	179.07	153.68	0.91	Yes
204099_at	SMARCD3	Springgreen	215.06	153.60	0.91	Yes
235205_at	LOC346887	Springgreen	206.51	152.35	0.90	Yes
214043_at	PTPRD	Springgreen	196.83	152.08	0.90	Yes
44783_s_at	HEY1	Springgreen	189.29	151.78	0.90	Yes
230240_at	Hs.660312	Springgreen	170.16	149.56	0.88	Yes
211715_s_at	BDH1	Springgreen	226.06	149.47	0.88	Yes
213201_s_at	TNNT1	Springgreen	179.12	147.17	0.87	Yes
237299_at	Hs.633025	Springgreen	199.55	147.07	0.87	Yes
211986_at	AHNAK	Springgreen	205.62	146.30	0.86	Yes
229484_at	PPM1J	Springgreen	184.84	145.42	0.86	Yes
236990_at	Hs.434326	Springgreen	189.94	145.06	0.86	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	k _{IN}	k _{IN_{sc}}	Is hub
208949_s_at	LGALS3	Springgreen	166.80	144.87	0.85	Yes
201531_at	ZFP36	Springgreen	164.02	143.84	0.85	Yes
227014_at	ASPHD2	Springgreen	159.09	142.57	0.84	Yes
1555759_a_at	CCL5	Springgreen	165.87	142.18	0.84	Yes
204086_at	PRAME	Springgreen	168.61	142.12	0.84	Yes
223082_at	SH3KBP1	Springgreen	165.86	141.95	0.84	Yes
221519_at	FBXW4	Springgreen	167.09	141.59	0.83	Yes
230039_at	Hs.116828	Springgreen	160.48	141.56	0.83	Yes
204979_s_at	SH3BGR	Springgreen	153.33	140.93	0.83	Yes
236282_at	Hs.633960	Springgreen	161.55	140.72	0.83	Yes
202967_at	GSTA4	Springgreen	159.66	140.18	0.83	Yes
222810_s_at	RASAL2	Springgreen	185.96	139.62	0.82	Yes
223303_at	FERMT3	Springgreen	179.35	139.40	0.82	Yes
215756_at	LOC730227	Springgreen	165.91	138.87	0.82	Yes
230277_at	LOC100289187	Springgreen	152.39	137.91	0.81	Yes
228439_at	BATF2	Springgreen	199.43	137.83	0.81	Yes
234088_at	Hs.636863	Springgreen	189.01	136.68	0.81	Yes
238423_at	SYTL3	Springgreen	155.84	136.63	0.81	Yes
209118_s_at	TUBA1A	Springgreen	170.27	135.86	0.80	Yes
241471_at	LOC730236	Springgreen	171.46	135.71	0.80	Yes
225855_at	EPB41L5	Springgreen	171.55	135.59	0.80	Yes
223967_at	ANGPTL6	Springgreen	153.12	134.48	0.79	Yes
1553997_a_at	ASPHD1	Springgreen	168.16	133.69	0.79	Yes
213946_s_at	OBSL1	Springgreen	157.02	133.56	0.79	Yes
227985_at	Hs.59203	Springgreen	159.41	133.37	0.79	Yes
205308_at	FAM164A	Springgreen	183.97	133.13	0.79	Yes
228548_at	Hs.586618	Springgreen	148.52	132.77	0.78	Yes
208978_at	CRIP2	Springgreen	146.64	132.71	0.78	Yes
221297_at	GPRC5D	Springgreen	180.12	132.61	0.78	Yes
226625_at	TGFBR3	Springgreen	153.33	131.81	0.78	Yes
226926_at	DMKN	Springgreen	159.74	131.38	0.77	Yes
226292_at	CAPN5	Springgreen	167.26	130.84	0.77	Yes
226207_at	RILPL1	Springgreen	175.34	130.34	0.77	Yes
227598_at	C7orf29	Springgreen	186.46	130.19	0.77	Yes
211729_x_at	BLVRA	Springgreen	146.56	129.71	0.76	Yes
227394_at	NCAM1	Springgreen	193.52	129.66	0.76	Yes
212151_at	PBX1	Springgreen	150.49	129.29	0.76	Yes
40837_at	TLE2	Springgreen	178.13	129.02	0.76	Yes
218665_at	FZD4	Springgreen	155.46	128.81	0.76	Yes
227283_at	EFR3B	Springgreen	156.14	128.13	0.76	Yes
1552665_at	LOC84989	Springgreen	158.23	128.09	0.76	Yes
225913_at	SGK269	Springgreen	160.58	127.75	0.75	Yes
203853_s_at	GAB2	Springgreen	146.80	127.38	0.75	Yes
226824_at	CPXM2	Springgreen	154.97	127.34	0.75	Yes
236616_at	Hs.199671	Springgreen	159.88	127.20	0.75	Yes
206756_at	CHST7	Springgreen	141.57	127.00	0.75	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
213135_at	TIAM1	Springgreen	143.81	126.45	0.75	Yes
202814_s_at	HEXIM1	Springgreen	157.23	126.43	0.75	Yes
204447_at	ProSAPiP1	Springgreen	180.92	126.26	0.74	Yes
238646_at	Hs.597327	Springgreen	138.80	125.70	0.74	Yes
213982_s_at	RABGAP1L	Springgreen	173.17	125.51	0.74	Yes
225775_at	TSPAN33	Springgreen	133.28	125.22	0.74	Yes
205992_s_at	IL15	Springgreen	151.75	124.83	0.74	Yes
205997_at	ADAM28	Springgreen	170.76	124.08	0.73	Yes
238893_at	LOC338758	Springgreen	145.20	123.84	0.73	Yes
227037_at	PLD6	Springgreen	191.66	123.60	0.73	Yes
227627_at	SGK3	Springgreen	148.72	123.58	0.73	Yes
235666_at	Hs.592472	Springgreen	134.23	122.42	0.72	Yes
229446_at	Hs.98470	Springgreen	136.54	121.91	0.72	Yes
223806_s_at	NAPSA	Springgreen	141.40	121.47	0.72	Yes
219098_at	MYBBP1A	Springgreen	146.48	121.08	0.71	Yes
208454_s_at	PGCP	Springgreen	159.05	121.02	0.71	Yes
206118_at	STAT4	Springgreen	135.22	120.95	0.71	Yes
201015_s_at	JUP	Springgreen	131.87	120.79	0.71	Yes
201497_x_at	MYH11	Springgreen	167.46	120.75	0.71	Yes
212647_at	RRAS	Springgreen	130.69	120.70	0.71	Yes
217511_at	KAZALD1	Springgreen	171.58	120.27	0.71	Yes
220326_s_at	FLJ10357	Springgreen	145.55	120.20	0.71	Yes
204993_at	GNAZ	Springgreen	132.86	120.15	0.71	Yes
206857_s_at	FKBP1B	Springgreen	150.07	120.13	0.71	Yes
227970_at	Hs.594343	Springgreen	139.01	119.82	0.71	Yes
213497_at	ABTB2	Springgreen	134.25	119.57	0.71	Yes
229930_at	LOC100134361	Springgreen	147.57	119.55	0.71	Yes
1559170_at	Hs.632352	Springgreen	149.67	119.54	0.70	Yes
226047_at	MRVI1	Springgreen	129.42	118.70	0.70	Yes
213361_at	TDRD7	Springgreen	146.47	118.46	0.70	Yes
223719_s_at	RTBDN	Springgreen	170.76	118.05	0.70	Yes
1569905_at	HSD11B1L	Springgreen	156.97	117.62	0.69	Yes
232579_at	LOC100134229	Springgreen	145.05	117.47	0.69	Yes
215116_s_at	DNM1	Springgreen	157.49	117.27	0.69	Yes
227867_at	C2orf89	Springgreen	163.97	117.17	0.69	Yes
239015_at	FLJ39582	Springgreen	129.27	117.03	0.69	Yes
209197_at	SYT11	Springgreen	185.18	116.67	0.69	Yes
209147_s_at	PPAP2A	Springgreen	128.91	116.33	0.69	Yes
221122_at	HRASLS2	Springgreen	126.92	115.70	0.68	Yes
214436_at	FBXL2	Springgreen	160.59	115.22	0.68	Yes
208130_s_at	TBXAS1	Springgreen	170.63	114.87	0.68	Yes
205011_at	VWA5A	Springgreen	128.64	114.26	0.67	Yes
230605_at	Hs.157818	Springgreen	132.80	113.79	0.67	Yes
228228_at	DACT3	Springgreen	148.69	113.46	0.67	Yes
230616_at	LAMB2L	Springgreen	133.54	113.17	0.67	Yes
228816_at	ATP6AP1L	Springgreen	174.49	113.15	0.67	Yes

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	KIN	kIN _{sc}	Is hub
239319_at	LOC728342	Springgreen	140.85	112.42	0.66	Yes
213302_at	PFAS	Springgreen	159.95	112.17	0.66	Yes
1569521_s_at	Hs.667944	Springgreen	120.80	111.82	0.66	Yes
212624_s_at	CHN1	Springgreen	122.53	111.60	0.66	Yes
209848_s_at	SILV	Springgreen	172.58	111.15	0.66	Yes
227109_at	CYP2R1	Springgreen	167.58	110.76	0.65	Yes
218394_at	ROGDI	Springgreen	120.86	110.42	0.65	Yes
226549_at	SBK1	Springgreen	132.28	110.39	0.65	Yes
209061_at	NCOA3	Springgreen	122.73	110.06	0.65	Yes
210075_at	MARCH2	Springgreen	137.18	109.64	0.65	Yes
209301_at	CA2	Springgreen	132.25	109.59	0.65	Yes
230669_at	RASA2	Springgreen	161.57	109.52	0.65	Yes
1556261_a_at	Hs.118609	Springgreen	131.40	109.50	0.65	Yes
227829_at	GYLTL1B	Springgreen	122.61	109.38	0.65	Yes
244481_at	Hs.609802	Springgreen	121.07	109.30	0.64	Yes
201587_s_at	IRAK1	Springgreen	178.30	108.81	0.64	Yes
221868_at	PAIP2B	Springgreen	130.99	108.64	0.64	Yes
235359_at	LRRC33	Springgreen	175.03	108.58	0.64	Yes
214614_at	MNX1	Springgreen	137.56	108.37	0.64	Yes
226565_at	TMEM99	Springgreen	117.25	108.27	0.64	Yes
203929_s_at	MAPT	Springgreen	177.31	108.02	0.64	Yes
226111_s_at	ZNF385A	Springgreen	115.37	107.71	0.64	Yes
228206_at	HS3ST4	Springgreen	119.02	107.22	0.63	Yes
204540_at	EEF1A2	Springgreen	145.10	107.18	0.63	Yes
230054_at	PRRT1	Springgreen	121.09	106.98	0.63	Yes
209048_s_at	ZMYND8	Springgreen	127.73	106.83	0.63	Yes
229468_at	CDK3	Springgreen	114.19	106.59	0.63	Yes
212124_at	ZMIZ1	Springgreen	137.01	105.53	0.62	Yes
240124_at	Hs.164557	Springgreen	120.61	105.52	0.62	Yes
204805_s_at	H1FX	Springgreen	118.82	104.81	0.62	Yes
241196_at	Hs.157791	Springgreen	119.20	103.87	0.61	Yes
218718_at	PDGFC	Springgreen	134.20	103.08	0.61	Yes
229829_at	C18orf18	Springgreen	171.53	102.82	0.61	Yes
222942_s_at	TIAM2	Springgreen	129.07	102.62	0.61	Yes
235802_at	PLD4	Springgreen	157.53	102.41	0.60	Yes
209193_at	PIM1	Springgreen	110.53	102.35	0.60	Yes
204257_at	FADS3	Springgreen	138.27	102.30	0.60	Yes
239366_at	Hs.597177	Springgreen	111.99	101.74	0.60	Yes
218618_s_at	FNDC3B	Springgreen	145.16	111.46	0.66	No
1560814_a_at	1560814_a_at	Springgreen	135.31	108.79	0.64	No
49878_at	PEX16	Springgreen	134.17	107.68	0.63	No
226741_at	SLC12A6	Springgreen	129.46	104.35	0.62	No
205919_at	HBE1	Springgreen	122.13	103.78	0.61	No
219882_at	TTLL7	Springgreen	145.42	103.43	0.61	No
46665_at	SEMA4C	Springgreen	119.19	101.57	0.60	No
207160_at	IL12A	Springgreen	111.06	100.96	0.60	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
202074_s_at	OPTN	Springgreen	112.74	100.81	0.59	No
214624_at	UPK1A	Springgreen	110.18	100.63	0.59	No
203723_at	ITPKB	Springgreen	129.09	100.63	0.59	No
205807_s_at	TUFT1	Springgreen	114.59	100.55	0.59	No
211031_s_at	CLIP2	Springgreen	128.22	100.25	0.59	No
209454_s_at	TEAD3	Springgreen	125.34	99.84	0.59	No
207616_s_at	TANK	Springgreen	118.21	99.80	0.59	No
219205_at	SRR	Springgreen	108.06	99.73	0.59	No
227571_at	Hs.31037	Springgreen	111.13	99.47	0.59	No
1553138_a_at	ANKLE1	Springgreen	178.92	99.39	0.59	No
202723_s_at	FOXO1	Springgreen	136.79	99.37	0.59	No
204340_at	TMEM187	Springgreen	134.62	99.29	0.59	No
202982_s_at	ACOT1	Springgreen	151.29	99.22	0.59	No
225900_at	EXOC6B	Springgreen	106.82	99.20	0.59	No
226713_at	CCDC50	Springgreen	128.49	99.03	0.58	No
217367_s_at	ZHX3	Springgreen	112.14	98.50	0.58	No
226140_s_at	OTUD1	Springgreen	110.38	98.36	0.58	No
201425_at	ALDH2	Springgreen	108.05	98.30	0.58	No
228724_at	Hs.594267	Springgreen	162.61	97.79	0.58	No
225654_at	NSD1	Springgreen	122.37	97.66	0.58	No
200931_s_at	VCL	Springgreen	128.88	97.63	0.58	No
222664_at	KCTD15	Springgreen	127.03	97.45	0.57	No
239117_at	Hs.560372	Springgreen	113.04	97.15	0.57	No
229338_at	LOC100289361	Springgreen	122.43	97.03	0.57	No
224995_at	SPIRE1	Springgreen	124.47	96.83	0.57	No
226018_at	C7orf41	Springgreen	170.29	96.70	0.57	No
1570125_at	Hs.621982	Springgreen	104.52	96.57	0.57	No
236323_at	Hs.535689	Springgreen	125.20	96.09	0.57	No
214265_at	ITGA8	Springgreen	122.11	96.03	0.57	No
212753_at	PCGF3	Springgreen	134.49	96.01	0.57	No
235543_at	Hs.122011	Springgreen	151.43	95.62	0.56	No
231071_at	Hs.163027	Springgreen	113.14	95.55	0.56	No
209959_at	NR4A3	Springgreen	103.64	95.52	0.56	No
205677_s_at	DLEU1	Springgreen	115.62	95.47	0.56	No
226895_at	NFIC	Springgreen	135.56	95.42	0.56	No
209318_x_at	PLAGL1	Springgreen	115.14	94.94	0.56	No
230786_at	Hs.99298	Springgreen	130.11	94.31	0.56	No
216250_s_at	LPXN	Springgreen	113.61	94.11	0.56	No
1554113_a_at	SLC4A8	Springgreen	111.45	93.79	0.55	No
208884_s_at	UBR5	Springgreen	121.44	93.37	0.55	No
202756_s_at	GPC1	Springgreen	121.49	93.02	0.55	No
229491_at	NHEDC2	Springgreen	139.80	92.78	0.55	No
242272_at	ZNF785	Springgreen	106.67	92.16	0.54	No
222838_at	SLAMF7	Springgreen	100.71	92.16	0.54	No
200920_s_at	BTG1	Springgreen	120.82	92.06	0.54	No
217892_s_at	LIMA1	Springgreen	98.82	92.00	0.54	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
203851_at	IGFBP6	Springgreen	118.10	91.63	0.54	No
236569_at	Hs.662758	Springgreen	146.63	91.62	0.54	No
201360_at	CST3	Springgreen	126.77	91.52	0.54	No
210036_s_at	KCNH2	Springgreen	104.74	91.49	0.54	No
244020_at	Hs.668035	Springgreen	116.63	91.29	0.54	No
218338_at	PHC1	Springgreen	96.36	91.26	0.54	No
212528_at	Hs.633087	Springgreen	112.01	91.05	0.54	No
227868_at	LOC154761	Springgreen	99.19	91.00	0.54	No
213435_at	SATB2	Springgreen	113.95	90.94	0.54	No
223424_s_at	ZSCAN21	Springgreen	116.14	90.83	0.54	No
201622_at	SND1	Springgreen	103.33	90.63	0.53	No
204852_s_at	PTPN7	Springgreen	150.45	89.92	0.53	No
225917_at	Hs.504856	Springgreen	111.69	89.73	0.53	No
219014_at	PLAC8	Springgreen	97.33	89.58	0.53	No
205486_at	TESK2	Springgreen	99.81	89.46	0.53	No
201464_x_at	JUN	Springgreen	96.90	89.21	0.53	No
213888_s_at	TRAF3IP3	Springgreen	110.12	89.08	0.53	No
211068_x_at	FAM21C	Springgreen	97.77	89.00	0.52	No
219279_at	DOCK10	Springgreen	125.93	88.66	0.52	No
1557630_s_at	LOC100290563	Springgreen	126.99	88.28	0.52	No
200872_at	S100A10	Springgreen	97.91	88.27	0.52	No
1557242_at	Hs.665057	Springgreen	151.93	88.14	0.52	No
239241_at	LOC727869	Springgreen	143.46	88.12	0.52	No
1557114_a_at	Hs.664925	Springgreen	96.54	88.11	0.52	No
201841_s_at	HSPB1	Springgreen	95.32	87.84	0.52	No
230450_at	Hs.648103	Springgreen	93.14	87.84	0.52	No
90610_at	LRCH4	Springgreen	96.10	87.75	0.52	No
237764_at	Hs.534680	Springgreen	142.93	87.43	0.52	No
204199_at	RALGPS1	Springgreen	191.96	87.25	0.51	No
204402_at	RHBDD3	Springgreen	105.66	87.00	0.51	No
227845_s_at	SHD	Springgreen	97.56	86.98	0.51	No
222315_at	Hs.575983	Springgreen	100.62	86.75	0.51	No
238758_at	Hs.180761	Springgreen	126.92	86.20	0.51	No
203065_s_at	CAV1	Springgreen	121.32	86.16	0.51	No
220818_s_at	TRPC4	Springgreen	110.26	85.98	0.51	No
201489_at	PPIF	Springgreen	149.68	85.50	0.50	No
223095_at	MARVELD1	Springgreen	91.95	85.42	0.50	No
225509_at	SAP30L	Springgreen	121.49	85.37	0.50	No
237304_at	SYCE2	Springgreen	93.00	84.88	0.50	No
244447_at	Hs.666767	Springgreen	117.51	84.86	0.50	No
228787_s_at	BCAS4	Springgreen	94.38	84.58	0.50	No
204747_at	IFIT3	Springgreen	88.57	84.53	0.50	No
204711_at	KIAA0753	Springgreen	99.12	84.36	0.50	No
200782_at	ANXA5	Springgreen	94.48	84.36	0.50	No
212691_at	NUP188	Springgreen	135.70	84.20	0.50	No
1555888_at	Hs.724085	Springgreen	129.86	84.10	0.50	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
218175_at	CCDC92	Springgreen	96.93	84.05	0.50	No
213329_at	SRGAP2	Springgreen	101.24	84.01	0.50	No
226051_at	SELM	Springgreen	103.94	83.87	0.49	No
208944_at	TGFBR2	Springgreen	97.87	83.76	0.49	No
202962_at	KIF13B	Springgreen	110.44	83.65	0.49	No
230657_at	Hs.668532	Springgreen	133.23	83.42	0.49	No
36553_at	ASMTL	Springgreen	114.67	83.40	0.49	No
207535_s_at	NFKB2	Springgreen	103.17	83.32	0.49	No
228797_at	Hs.655270	Springgreen	93.35	83.27	0.49	No
230968_at	Hs.444785	Springgreen	95.85	83.20	0.49	No
226657_at	C17orf103	Springgreen	113.74	82.92	0.49	No
224796_at	ASAP1	Springgreen	97.53	82.64	0.49	No
223132_s_at	TRIM8	Springgreen	142.68	82.59	0.49	No
229764_at	TPRG1	Springgreen	156.11	82.54	0.49	No
230430_at	ENTPD2	Springgreen	121.63	82.52	0.49	No
228087_at	CCDC126	Springgreen	97.43	82.40	0.49	No
229872_s_at	LOC642441	Springgreen	155.85	82.35	0.49	No
203068_at	KLHL21	Springgreen	106.93	82.27	0.49	No
238115_at	Hs.654936	Springgreen	90.94	82.22	0.48	No
212185_x_at	MT2A	Springgreen	90.21	82.09	0.48	No
220160_s_at	KPTN	Springgreen	101.54	81.93	0.48	No
214339_s_at	MAP4K1	Springgreen	109.26	81.89	0.48	No
202288_at	MTOR	Springgreen	108.57	81.71	0.48	No
203264_s_at	ARHGEF9	Springgreen	92.81	81.65	0.48	No
201850_at	CAPG	Springgreen	91.23	81.64	0.48	No
218523_at	LHPP	Springgreen	96.60	81.34	0.48	No
202627_s_at	SERPINE1	Springgreen	100.57	81.31	0.48	No
213515_x_at	HBG2	Springgreen	90.30	81.30	0.48	No
205384_at	FXYD1	Springgreen	104.76	81.20	0.48	No
226184_at	FMNL2	Springgreen	126.37	81.04	0.48	No
209431_s_at	PATZ1	Springgreen	105.92	80.83	0.48	No
209691_s_at	DOK4	Springgreen	86.87	80.77	0.48	No
231823_s_at	SH3PXD2B	Springgreen	105.00	80.70	0.48	No
218231_at	NAGK	Springgreen	86.89	80.63	0.48	No
226372_at	CHST11	Springgreen	117.72	80.38	0.47	No
203932_at	HLA-DMB	Springgreen	105.94	80.33	0.47	No
231270_at	CA13	Springgreen	96.35	80.01	0.47	No
226049_at	ERC1	Springgreen	93.58	79.95	0.47	No
235005_at	DIS3L	Springgreen	113.92	79.86	0.47	No
1554085_at	DDX51	Springgreen	117.28	79.75	0.47	No
228482_at	CDRT4	Springgreen	85.89	79.32	0.47	No
213556_at	LOC390940	Springgreen	99.90	78.99	0.47	No
220584_at	FLJ22184	Springgreen	95.50	78.97	0.47	No
204425_at	ARHGAP4	Springgreen	93.95	78.93	0.47	No
226124_at	ZFP90	Springgreen	96.97	78.91	0.47	No
201236_s_at	BTG2	Springgreen	103.71	78.88	0.47	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
229821_at	LRRC37A4	Springgreen	89.14	78.83	0.46	No
240841_at	INSM2	Springgreen	135.54	78.64	0.46	No
208807_s_at	CHD3	Springgreen	107.69	78.21	0.46	No
1561191_at	LOC650095	Springgreen	137.21	78.02	0.46	No
225147_at	CYTH3	Springgreen	101.60	77.98	0.46	No
228728_at	C7orf58	Springgreen	85.81	77.85	0.46	No
209326_at	SLC35A2	Springgreen	112.51	77.83	0.46	No
212838_at	DNMBP	Springgreen	85.25	77.82	0.46	No
216095_x_at	MTMR1	Springgreen	117.78	77.73	0.46	No
212473_s_at	MICAL2	Springgreen	85.33	77.66	0.46	No
213043_s_at	MED24	Springgreen	136.03	77.65	0.46	No
227216_at	RLTPR	Springgreen	100.86	77.34	0.46	No
204730_at	RIMS3	Springgreen	94.39	77.27	0.46	No
212660_at	PHF15	Springgreen	120.74	77.05	0.45	No
224746_at	KIAA1522	Springgreen	90.04	76.99	0.45	No
204514_at	DPH2	Springgreen	110.61	76.75	0.45	No
212894_at	SUPV3L1	Springgreen	107.18	76.71	0.45	No
202838_at	FUCA1	Springgreen	103.18	76.63	0.45	No
227616_at	BCL9L	Springgreen	101.00	76.48	0.45	No
206017_at	KIAA0319	Springgreen	119.99	76.42	0.45	No
202692_s_at	UBTF	Springgreen	102.78	76.40	0.45	No
204004_at	Hs.644980	Springgreen	134.88	76.36	0.45	No
218076_s_at	ARHGAP17	Springgreen	83.07	76.29	0.45	No
206424_at	CYP26A1	Springgreen	82.92	76.16	0.45	No
203490_at	ELF4	Springgreen	90.17	76.13	0.45	No
224977_at	C6orf89	Springgreen	100.32	76.04	0.45	No
218747_s_at	TAPBPL	Springgreen	83.23	75.94	0.45	No
219506_at	C1orf54	Springgreen	155.56	75.56	0.45	No
227476_at	LPGAT1	Springgreen	83.44	74.97	0.44	No
202761_s_at	SYNE2	Springgreen	91.41	74.93	0.44	No
220288_at	MYO15A	Springgreen	105.66	74.78	0.44	No
215331_at	MYH15	Springgreen	90.53	74.40	0.44	No
208759_at	NCSTN	Springgreen	107.04	74.10	0.44	No
223041_at	CD99L2	Springgreen	116.68	74.00	0.44	No
213499_at	CLCN2	Springgreen	116.57	73.79	0.44	No
214129_at	PDE4DIP	Springgreen	86.50	73.74	0.43	No
205230_at	RPH3A	Springgreen	89.11	73.67	0.43	No
226494_at	KIAA1543	Springgreen	118.57	73.67	0.43	No
202974_at	MPP1	Springgreen	109.33	72.96	0.43	No
226648_at	HIF1AN	Springgreen	101.28	72.94	0.43	No
227975_at	GPRIN1	Springgreen	88.50	72.88	0.43	No
223929_s_at	LOC100287878	Springgreen	86.05	72.68	0.43	No
224566_at	NEAT1	Springgreen	99.22	72.29	0.43	No
221221_s_at	KLHL3	Springgreen	102.81	72.09	0.43	No
205352_at	SERPINI1	Springgreen	102.78	72.01	0.42	No
213808_at	Hs.370287	Springgreen	106.71	71.94	0.42	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
223391_at	SGPP1	Springgreen	106.09	71.77	0.42	No
53987_at	RANBP10	Springgreen	80.44	71.67	0.42	No
226981_at	MLL	Springgreen	110.19	71.66	0.42	No
226614_s_at	FAM167A	Springgreen	93.83	71.65	0.42	No
219172_at	UBTD1	Springgreen	80.59	71.52	0.42	No
225074_at	RAB2B	Springgreen	117.57	71.20	0.42	No
209473_at	ENTPD1	Springgreen	86.41	71.18	0.42	No
209781_s_at	KHDRBS3	Springgreen	95.45	71.17	0.42	No
1569200_at	Hs.657817	Springgreen	112.76	70.61	0.42	No
233642_s_at	HEATR5B	Springgreen	110.97	70.31	0.41	No
218470_at	YARS2	Springgreen	107.63	70.10	0.41	No
236279_at	Hs.659129	Springgreen	94.42	69.80	0.41	No
209234_at	KIF1B	Springgreen	75.21	69.68	0.41	No
229131_at	Hs.533878	Springgreen	95.02	69.62	0.41	No
202153_s_at	NUP62	Springgreen	103.50	69.42	0.41	No
225771_at	AP1G1	Springgreen	95.52	68.76	0.41	No
217995_at	SQRDL	Springgreen	77.12	68.71	0.41	No
213096_at	TMCC2	Springgreen	111.34	68.44	0.40	No
203159_at	GLS	Springgreen	91.28	68.31	0.40	No
239413_at	CEP152	Springgreen	112.34	68.13	0.40	No
202450_s_at	CTSK	Springgreen	123.56	68.11	0.40	No
204488_at	DOLK	Springgreen	115.20	67.98	0.40	No
202136_at	ZMYND11	Springgreen	81.31	67.85	0.40	No
234665_x_at	HHLA3	Springgreen	88.19	67.77	0.40	No
201063_at	RCN1	Springgreen	146.64	67.77	0.40	No
226364_at	HIP1	Springgreen	95.71	67.68	0.40	No
240405_at	Hs.664843	Springgreen	100.73	67.44	0.40	No
203410_at	AP3M2	Springgreen	108.08	67.23	0.40	No
226439_s_at	NBEA	Springgreen	85.01	67.04	0.40	No
218130_at	C17orf62	Springgreen	79.49	66.55	0.39	No
236730_at	GIPC3	Springgreen	125.75	66.06	0.39	No
226012_at	ANKRD11	Springgreen	74.79	65.89	0.39	No
224749_at	ITFG3	Springgreen	82.19	65.64	0.39	No
202880_s_at	CYTH1	Springgreen	82.51	65.62	0.39	No
212313_at	CHMP7	Springgreen	80.74	65.61	0.39	No
227213_at	ADAT2	Springgreen	72.93	65.03	0.38	No
210307_s_at	KLHL25	Springgreen	77.79	65.00	0.38	No
227410_at	FAM43A	Springgreen	69.47	64.69	0.38	No
205747_at	CBLN1	Springgreen	74.93	64.59	0.38	No
237067_at	237067_at	Springgreen	111.46	63.66	0.38	No
226620_x_at	DAZAP1	Springgreen	76.83	62.70	0.37	No
218016_s_at	POLR3E	Springgreen	88.06	62.02	0.37	No
239363_at	Hs.663182	Springgreen	67.44	61.74	0.36	No
204922_at	C11orf80	Springgreen	72.91	61.50	0.36	No
222830_at	GRHL1	Springgreen	85.74	61.03	0.36	No
206991_s_at	CCR5	Springgreen	73.14	60.95	0.36	No

Supplementary Table 1B

901 nodes of the top connectivity network

AffyID	GeneID	Module	k _{Total}	kIN	kIN _{sc}	Is hub
222218_s_at	PILRA	Springgreen	105.46	60.08	0.35	No
227603_at	Hs.656246	Springgreen	69.95	60.04	0.35	No
239763_at	Hs.660574	Springgreen	75.57	60.01	0.35	No
213407_at	PHLPP2	Springgreen	65.62	59.89	0.35	No
230937_at	LOC285835	Springgreen	106.85	59.72	0.35	No
223218_s_at	NFKBIZ	Springgreen	82.73	59.14	0.35	No
215460_x_at	BRD1	Springgreen	78.09	58.88	0.35	No
236423_at	Hs.539431	Springgreen	84.31	58.40	0.34	No
219170_at	FSD1	Springgreen	71.41	58.15	0.34	No
201858_s_at	SRGN	Springgreen	70.87	57.61	0.34	No
204629_at	PARVB	Springgreen	104.77	57.31	0.34	No
228951_at	Hs.593499	Springgreen	63.57	56.94	0.34	No
215487_x_at	Hs.516952	Springgreen	71.19	56.40	0.33	No
205068_s_at	ARHGAP26	Springgreen	68.47	56.40	0.33	No
213269_at	ZNF248	Springgreen	75.52	55.50	0.33	No
204998_s_at	ATF5	Springgreen	72.54	55.32	0.33	No
203221_at	TLE1	Springgreen	71.92	54.09	0.32	No
242323_at	PLA2G12A	Springgreen	124.96	54.03	0.32	No
212052_s_at	TBC1D9B	Springgreen	65.18	53.36	0.31	No
221206_at	Hs.632872	Springgreen	73.52	52.67	0.31	No
222318_at	ZNF324B	Springgreen	67.27	52.49	0.31	No
214696_at	C17orf91	Springgreen	113.74	52.41	0.31	No
213097_s_at	DNAJC2	Springgreen	59.17	51.40	0.30	No
222704_at	POLR1A	Springgreen	64.52	49.87	0.29	No
1558412_at	LOC113230	Springgreen	57.69	49.24	0.29	No
242305_at	LOC645513	Springgreen	54.42	48.20	0.28	No
1554894_a_at	PCBD2	Springgreen	67.53	47.72	0.28	No

Supplementary Table 1C

Gene ontology (GO) analyses

REVIGO results

DAVID results

GE in Combination vs. Control

GO	GO.TermID	GO.Name	dispensability	Mean kIN _{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated
Blue Module													
BP	GO:0000819	sister chromatid segregation	0	0.7127	819	0	2.1E-03	4.4E-02	15.36	4	-3.72	CDC45, ESPL1, NCAPD3, NCAPH	
BP	GO:0000279	M phase	0.777	0.6804	819	1	1.4E-18	1.1E-15	10.96	25	-3.63	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, HZAFX, KIF22, KIF2C, MKI67, NCAPD3, NCAPH, PLK1, RAD51, RAD54L, SKA3, SPAG5, SPC24, TACC3, TIMELESS, TRIP13, UBE2C	
BP	GO:0000280	nuclear division	0.99	0.7015	819	1	7.5E-15	1.1E-12	12.38	19	-3.69	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, KIF22, KIF2C, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C	
BP	GO:0000070	mitotic sister chromatid segregation	0.818	0.7127	819	1	2.0E-03	4.3E-02	15.79	4	-3.72	CDC45, ESPL1, NCAPD3, NCAPH	
BP	GO:0051327	M phase of meiotic cell cycle	0.997	0.6393	819	1	5.1E-05	2.4E-03	10.47	7	-3.67	ESPL1, HZAFX, MKI67, PLK1, RAD51, RAD54L, TRIP13	
BP	GO:0007067	mitosis	0.942	0.7015	819	1	7.5E-15	1.1E-12	12.38	19	-3.69	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, KIF22, KIF2C, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C	
BP	GO:0007126	meiosis	0.899	0.6393	819	1	5.1E-05	2.4E-03	10.47	7	-3.67	ESPL1, HZAFX, MKI67, PLK1, RAD51, RAD54L, TRIP13	
BP	GO:0022403	cell cycle phase	0.935	0.6713	819	1	2.3E-17	5.9E-15	9.03	26	-3.61	BLM, CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, HZAFX, KIF22, KIF2C, MKI67, NCAPD3, NCAPH, PLK1, RAD51, RAD54L, SKA3, SPAG5, SPC24, TACC3, TIMELESS, TRIP13, UBE2C	
BP	GO:0000087	M phase of mitotic cell cycle	0.948	0.7015	819	1	1.0E-14	1.3E-12	12.16	19	-3.69	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, KIF22, KIF2C, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C	
BP	GO:0002504	antigen processing and presentation of peptide or polysaccharide antigen via MHC class II	0	0.7123	2504	0	1.7E-04	6.9E-03	35.52	4	3.89		HLA-DMA, HLA-DPB1, HLA-DQB1, (HLA-DRB1, HLA-DRB4)
BP	GO:0051301	cell division	0.018	0.6936	51301	0	1.3E-11	1.1E-09	8.79	18	-3.77	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CIT, ESPL1, MKI67, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C	
BP	GO:0007059	chromosome segregation	0.023	0.6808	7059	0	2.3E-04	8.9E-03	10.66	6	-3.55	CDC45, ESPL1, HJURP, NCAPD3, NCAPH, SKA3	
BP	GO:0007017	microtubule-based process	0.024	0.682	7017	0	3.1E-04	1.0E-02	5.20	9	-3.25	CENPA, ESPL1, KIF22, KIF2C, SPAG5, TACC3, TUBA1B, TUBA1C, UBE2C	
BP	GO:0007049	cell cycle	0.027	0.6677	7049	0	1.7E-18	6.6E-16	6.35	34	-3.66	BLM, CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDC45, CENPA, CHAF1B, CIT, DBF4B, E2F2, ESPL1, FOXM1, HZAFX, HJURP, KIF22, KIF2C, MCM2, MKI67, NCAPD3, NCAPH, PLK1, RAD51, RAD54L, SKA3, SPAG5, SPC24, SUV39H1, TACC3, TIMELESS, TRIP13, UBE2C	
BP	GO:0006260	DNA replication	0.031	0.636	6260	0	3.7E-10	2.8E-08	10.87	14	-4.50	BLM, CDC25A, CDC25C, CDC6, CHAF1B, MCM10, MCM2, MCM4, MCM5, POLA2, RAD51, RRM14, RFC2, RRM2	
BP	GO:0000724	double-strand break repair via homologous recombination	0.409	0.577	724	0	2.9E-04	1.0E-02	29.91	4	-2.93	BLM, HZAFX, RAD51, RAD54L	
BP	GO:0006259	DNA metabolic process	0.422	0.6165	6259	0	9.1E-10	6.3E-08	5.75	20	-4.10	BLM, CDC25A, CDC25C, CDC6, CHAF1B, FANCG, HZAFX, KIF22, MCM10, MCM2, MCM4, MCM5, POLA2, RAD18, RAD51, RAD54L, RRM14, RFC2, RRM2, TRIP13	
BP	GO:0065003	macromolecular complex assembly	0.457	0.6483	65003	0	1.6E-03	3.9E-02	2.87	13	-3.37	BLM, CENPA, CHAF1B, E2F2, HZAFX, HJURP, MCM2, RAD51, RRM2, TMEM48, TUBA1B, TUBA1C	HLA-DMA
BP	GO:0034621	cellular macromolecular complex subunit organization	0.944	0.6397	65003	1	2.5E-03	5.0E-02	3.77	9	-3.16	CENPA, CHAF1B, HZAFX, HJURP, KIF2C, MCM2, TMEM48, TUBA1B, TUBA1C	

Supplementary Table 1C

Gene ontology (GO) analyses

GO	GO.TermID	GO.Name	REVIGO results				DAVID results				GE in Combination vs. Control			
			dispensability	Mean kIN _{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated	
BP	GO:0000725	recombinational repair	0.467	0.577	725	0	2.9E-04	1.0E-02	29.91	4	-2.93	BLM, H2AFX, RAD51, RAD54L		
BP	GO:0006261	DNA-dependent DNA replication	0.538	0.6607	6261	0	7.0E-04	2.0E-02	12.25	5	-3.99	BLM, MCM2, MCM4, MCM5, RAD51		
BP	GO:0000278	mitotic cell cycle	0.551	0.6792	278	0	5.2E-13	5.0E-11	8.15	21	-3.66	BLM, CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDCA5, CENPA, CIT, ESPL1, KIF22, KIF2C, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C		
BP	GO:0048285	organelle fission	0.573	0.7015	48285	0	1.5E-14	1.7E-12	11.89	19	-3.69	CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDCA5, CIT, ESPL1, KIF22, KIF2C, NCAPD3, NCAPH, PLK1, SKA3, SPAG5, SPC24, TIMELESS, UBE2C		
BP	GO:0051276	chromosome organization	0.755	0.6027	48285	1	1.9E-05	1.1E-03	4.27	14	-2.74	BLM, CDCA5, CENPA, CHAF1B, ESPL1, H2AFX, HJURP, MCM2, NCAPD3, NCAPH, RAD54L, RBM14, SUV39H1	SATB1	
BP	GO:0034728	nucleosome organization	0.926	0.5585	48285	1	2.1E-03	4.5E-02	9.11	5	-3.39	CENPA, CHAF1B, H2AFX, HJURP, MCM2		
BP	GO:0006333	chromatin assembly or disassembly	0.925	0.5751	48285	1	1.1E-03	2.9E-02	7.61	6	-3.20	CENPA, CHAF1B, H2AFX, HJURP, MCM2, SUV39H1		
BP	GO:0006334	nucleosome assembly	0.82	0.5585	48285	1	1.3E-03	3.5E-02	10.29	5	-3.39	CENPA, CHAF1B, H2AFX, HJURP, MCM2		
BP	GO:0031497	chromatin assembly	0.96	0.5585	48285	1	1.6E-03	3.9E-02	9.87	5	-3.39	CENPA, CHAF1B, H2AFX, HJURP, MCM2		
BP	GO:0065004	protein-DNA complex assembly	0.997	0.5585	48285	1	1.9E-03	4.4E-02	9.35	5	-3.39	CENPA, CHAF1B, H2AFX, HJURP, MCM2		
BP	GO:0051321	meiotic cell cycle	0.605	0.6393	51321	0	5.7E-05	2.6E-03	10.25	7	-3.67	ESPL1, H2AFX, MKI67, PLK1, RAD51, RAD54L, TRIP13		
BP	GO:0006323	DNA packaging	0.61	0.6197	6323	0	6.3E-06	4.0E-04	11.25	8	-3.53	CDCA5, CENPA, CHAF1B, H2AFX, HJURP, MCM2, NCAPD3, NCAPH		
BP	GO:0000226	microtubule cytoskeleton organization	0.649	0.6747	226	0	4.8E-04	1.5E-02	6.95	7	-3.42	CENPA, ESPL1, KIF2C, SPAG5, TACC3, TUBA1B, UBE2C		
BP	GO:0051726	regulation of cell cycle	0.652	0.6467	51726	0	8.6E-05	3.6E-03	4.79	11	-3.58	BLM, CDC25A, CDC25C, CDC6, E2F2, ESPL1, FANCG, H2AFX, TACC3, TIMELESS, UBE2C		
BP	GO:0006310	DNA recombination	0.653	0.593	6310	0	6.5E-04	2.0E-02	8.52	6	-3.45	BLM, H2AFX, RAD51, RAD54L, RBM14, TRIP13		
BP	GO:0006281	DNA repair	0.663	0.5778	6281	0	2.2E-05	1.2E-03	5.62	11	-3.03	BLM, CHAF1B, FANCG, H2AFX, KIF22, RAD18, RAD51, RAD54L, RBM14, RFC2, TRIP13		
BP	GO:0033554	cellular response to stress	0.764	0.581	6281	1	1.6E-03	3.8E-02	3.06	12	-2.96	BLM, CHAF1B, FANCG, H2AFX, KIF22, RAD18, RAD51, RAD54L, RBM14, RFC2, TIMELESS, TRIP13		
BP	GO:0006974	response to DNA damage stimulus	0.957	0.581	6281	1	4.6E-05	2.3E-03	4.65	12	-2.96	BLM, CHAF1B, FANCG, H2AFX, KIF22, RAD18, RAD51, RAD54L, RBM14, RFC2, TIMELESS, TRIP13		
BP	GO:0006302	double-strand break repair	0.669	0.5762	6302	0	9.0E-04	2.5E-02	11.46	5	-3.51	BLM, H2AFX, RAD51, RAD54L, TRIP13		
BP	GO:0022402	cell cycle process	0.68	0.6646	22402	0	3.6E-15	7.0E-13	6.87	27	-3.61	BLM, CCNB2, CDC20, CDC25A, CDC25C, CDC6, CDCA3, CDCA5, CENPA, CIT, ESPL1, H2AFX, KIF22, KIF2C, MKI67, NCAPD3, NCAPH, PLK1, RAD51, RAD54L, SKA3, SPAG5, SPC24, TACC3, TIMELESS, TRIP13, UBE2C		
BP	GO:0043933	macromolecular complex subunit organization	0.695	0.6599	43933	0	2.7E-04	9.8E-03	3.09	15	-3.55	BLM, CENPA, CHAF1B, E2F2, H2AFX, HJURP, KIF2C, MCM2, RAD51, RRM2, SCAR1, TMEM48, TUBA1B, TUBA1C	HLA-DMA	
CC	GO:0042611	MHC protein complex	0.000	0.712	42611	0	1.5E-03	1.6E-02	17.24	4	3.89		HLA-DMA, HLA-DPB1, HLA-DQB1, (HLA-DRB1, HLA-DRB4)	
CC	GO:0042613	MHC class II protein complex	0.773	0.712	42611	1	5.1E-05	1.0E-03	51.72	4	3.89		HLA-DMA, HLA-DPB1, HLA-DQB1, (HLA-DRB1, HLA-DRB4)	
CC	GO:0015630	microtubule cytoskeleton	0.002	0.670	15630	0	1.2E-03	1.4E-02	3.17	12	-3.20	CCNB2, CDC20, CDC6, ESPL1, KIF22, KIF2C, PLK1, SKA3, SPAG5, TUBA1B, TUBA1C	CAMSAP1L1	
CC	GO:0005819	spindle	0.727	0.616	15630	1	3.5E-03	3.5E-02	5.80	6	-3.92	CDC20, CDC6, KIF22, PLK1, SKA3, SPAG5		
CC	GO:0031981	nuclear lumen	0.173	0.641	31981	0	1.5E-03	1.6E-02	2.09	21	-3.86	BLM, CDC20, CDC25A, CDC25C, CDC6, CHAF1B, E2F2, H2AFX, HJURP, LMNB1, MCM10, MCM2, MCM4, MCM5, MKI67, PLK1, POLA2, RAD51, RBM14, RFC2, UBE2C		

Supplementary Table 1C

Gene ontology (GO) analyses

GO	GO.TermID	GO.Name	REVIGO results				DAVID results				GE in Combination vs. Control			
			dispensability	Mean kIN _{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated	
CC	GO:0000228	nuclear chromosome	0.841	0.581	31981	1	1.5E-05	3.4E-04	7.95	9	-2.28	BLM, H2AFX, MCM2, NCAPD3, POLA2, RAD51, SUV39H1, TIMELESS	CALCOCO1	
CC	GO:0005654	nucleoplasm	0.902	0.636	31981	1	8.3E-05	1.4E-03	2.94	18	-3.92	BLM, CDC20, CDC25A, CDC25C, CDC6, CHAF1B, E2F2, H2AFX, MCM10, MCM2, MCM4, MCM5, PLK1, POLA2, RAD51, RBM14, RFC2, UBE2C		
CC	GO:0043228	non-membrane-bounded organelle	0.235	0.658	43228	0	1.2E-04	1.9E-03	1.91	33	-3.12	BLM, CCNB2, CDC20, CDC6, CDCAS, CENPA, CENPM, ESPL1, H2AFX, HUURP, KIF22, KIF2C, LMNB1, MCM2, MCM4, MKI67, NCAPD3, NCAPH, PLK1, POLA2, RAD18, RAD51, RBM14, RFC2, SKA3, SPAG5, SPC24, SUV39H1, TIMELESS, TUBA1B, TUBA1C	CALCOCO1, CAMSAP111	
CC	GO:0000776	kinetochore	0.350	0.690	776	0	9.8E-07	3.5E-05	14.78	8	-3.86	CENPA, CENPM, HUURP, KIF22, KIF2C, SKA3, SPAG5, SPC24		
CC	GO:0000794	condensed nuclear chromosome	0.912	0.608	776	1	4.5E-03	4.2E-02	11.85	4	-2.71	BLM, NCAPD3, RAD51, SUV39H1		
CC	GO:0000777	condensed chromosome kinetochore	0.880	0.697	776	1	2.8E-06	8.5E-05	17.16	7	-3.97	CENPA, CENPM, HUURP, KIF2C, SKA3, SPAG5, SPC24		
CC	GO:0000779	condensed chromosome, centromeric region	0.918	0.697	776	1	6.1E-06	1.6E-04	15.08	7	-3.97	CENPA, CENPM, HUURP, KIF2C, SKA3, SPAG5, SPC24		
CC	GO:0005694	chromosome	0.481	0.645	5694	0	1.7E-12	1.5E-10	7.05	22	-3.11	BLM, CDCAS, CENPA, CENPM, H2AFX, HUURP, KIF22, KIF2C, MCM2, MKI67, NCAPD3, NCAPH, POLA2, RAD18, RAD51, RFC2, SKA3, SPAG5, SPC24, SUV39H1, TIMELESS	CALCOCO1	
CC	GO:0000793	condensed chromosome	0.505	0.680	793	0	6.8E-11	4.1E-09	14.44	13	-3.60	BLM, CENPA, CENPM, HUURP, KIF2C, MKI67, NCAPD3, NCAPH, RAD51, SKA3, SPAG5, SPC24, SUV39H1		
CC	GO:0044427	chromosomal part	0.634	0.640	44427	0	5.8E-13	1.1E-10	8.03	21	-3.12	BLM, CDCAS, CENPA, CENPM, H2AFX, HUURP, KIF22, KIF2C, MCM2, MKI67, NCAPD3, NCAPH, POLA2, RAD18, RFC2, SKA3, SPAG5, SPC24, SUV39H1, TIMELESS	CALCOCO1	
CC	GO:0044454	nuclear chromosome part	0.831	0.544	44427	1	1.9E-04	2.6E-03	8.23	7	-2.21	BLM, H2AFX, MCM2, NCAPD3, POLA2, TIMELESS	CALCOCO1	
CC	GO:0000785	chromatin	0.790	0.580	44427	1	3.2E-04	4.2E-03	6.05	8	-2.21	CENPA, H2AFX, KIF22, MCM2, RAD18, SUV39H1, TIMELESS	CALCOCO1	
CC	GO:0005657	replication fork	0.815	0.534	44427	1	6.7E-05	1.2E-03	22.22	5	-2.74	BLM, H2AFX, POLA2, RAD18, RFC2		
CC	GO:0000775	chromosome, centromeric region	0.657	0.686	775	0	1.7E-07	7.5E-06	11.56	10	-3.68	CENPA, CENPM, HUURP, KIF22, KIF2C, MKI67, SKA3, SPAG5, SPC24, SUV39H1		
CC	GO:0043232	intracellular non-membrane-bounded organelle	0.676	0.658	43232	0	1.2E-04	1.9E-03	1.91	33	-3.12	BLM, CCNB2, CDC20, CDC6, CDCAS, CENPA, CENPM, ESPL1, H2AFX, HUURP, KIF22, KIF2C, LMNB1, MCM2, MCM4, MKI67, NCAPD3, NCAPH, PLK1, POLA2, RAD18, RAD51, RBM14, RFC2, SKA3, SPAG5, SPC24, SUV39H1, TIMELESS, TUBA1B, TUBA1C	CALCOCO1, CAMSAP111	
MF	GO:0032395	MHC class II receptor activity	0.000	0.712	32395	0	4.6E-05	1.0E-02	53.65	4	3.89		HLA-DMA, HLA-DPB1, HLA-DQB1, HLA-DRB1, HLA-DRB4	
Orange Module														
CC	GO:0016021	integral to membrane	0.000	0.804	16021	0	5.5E-04	4.7E-02	1.87	20	0.47	ADAM23, FGR4, HVCN1, IL13RA1, SLC30A3, SORT1, TMEM107	C3AR1, CNNM4, ELOVL3, ENPP1, ESAM, GALNT10, IL2RB, KIAA1467, KREMEN1, LAMP3, SEMA4F, STOM, TMEM180	
CC	GO:0031224	intrinsic to membrane	0.607	0.804	31224	0	9.7E-04	4.1E-02	1.80	20	0.47	ADAM23, FGR4, HVCN1, IL13RA1, SLC30A3, SORT1, TMEM107	C3AR1, CNNM4, ELOVL3, ENPP1, ESAM, GALNT10, IL2RB, KIAA1467, KREMEN1, LAMP3, SEMA4F, STOM, TMEM180	
Darkgreen Module														
BP	GO:0006259	DNA metabolic process	0.000	0.563	6259	0	1.8E-05	1.3E-02	3.26	19	-1.67	ABL1, AIFM1, CHD1L, DFFB, DNASE1L1, DNMT3A, GTF2H3, HAUS7, HMGA1, HSPD1, LIG3, NASP, OBF2B, PARP1, SET, SMARCB1, SSRP1, SUPT16H	NFIA	

Supplementary Table 1C

Gene ontology (GO) analyses

GO	GO.TermID	GO.Name	REVIGO results			DAVID results			GE in Combination vs. Control				
			dispensability	Mean kIN_{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated
BP	GO:0065003	macromolecular complex assembly	0.000	0.603	65003	0	1.8E-04	5.0E-02	2.64	20	-1.65	C20orf7, CENPV, FKBP4, GEMIN4, GTF2H3, H2AFY, H3F3A, HMGA1, HSPD1, IPO11, MED12, PAK2, SET, SF3B3, SHMT1, TSR1, TUBB, TUBGCP4, WDR77	APC2
BP	GO:0034621	cellular macromolecular complex subunit organization	0.944	0.586	65003	1	1.0E-05	1.4E-02	4.01	16	-1.90	C20orf7, CENPV, FKBP4, GEMIN4, H2AFY, H3F3A, HMGA1, HSPD1, IPO11, NASP, PAK2, SET, SUPT16H, TSR1, TUBB, WDR77	
BP	GO:0051276	chromosome organization	0.638	0.558	51276	0	3.2E-05	1.4E-02	3.28	18	-1.62	AIFM1, AIFM2, CENPV, CHD1L, DFFB, DNMT3A, H2AFY, H3F3A, HMGA1, HMG2, INO80, NASP, PARP1, SET, SMARCA4, SMARCB1, SUPT16H	PRDM6
BP	GO:0043933	macromolecular complex subunit organization	0.695	0.587	43933	0	5.1E-05	1.8E-02	2.71	22	-1.67	C20orf7, CENPV, FKBP4, GEMIN4, GTF2H3, H2AFY, H3F3A, HMGA1, HSPD1, IPO11, MED12, NASP, PAK2, SET, SF3B3, SHMT1, SUPT16H, TSR1, TUBB, TUBGCP4, WDR77	APC2
CC	GO:0031974	membrane-enclosed lumen	0.000	0.590	31974	0	3.3E-06	3.1E-04	1.96	48	-1.75	ABL1, ACO2, AIFM1, COIL, DDX54, DFFB, DNMT3A, DUSP7, EXOSC2, FKBP4, GEMIN4, GTF2H3, HCFC1, HMGA1, HNRNPL, HSPD1, IVD, KEAP1, LARS2, LAS1L, LIG3, LMNB2, MED12, MIPEP, MPHOSPH6, MRPS15, NF2, NOL12, NOLC1, NVL, OXCT1, PA2G4, PARP1, POLR3H, PSMDB, SET, SMARCB1, SSRP1, SUPT16H, TH1L, THOC4, TOE1, TRIM25, TSR1, UTP20, WDR4	PDIA5, TBX19
CC	GO:0031981	nuclear lumen	0.000	0.601	31981	0	1.7E-05	1.2E-03	2.04	39	-1.80	ABL1, COIL, DDX54, DFFB, DNMT3A, DUSP7, EXOSC2, FKBP4, GEMIN4, GTF2H3, HCFC1, HMGA1, HNRNPL, KEAP1, LAS1L, LIG3, LMNB2, MED12, MPHOSPH6, NF2, NOL12, NOLC1, NVL, PA2G4, PARP1, POLR3H, PSMDB, SET, SMARCB1, SSRP1, SUPT16H, TH1L, THOC4, TOE1, TRIM25, TSR1, UTP20, WDR4	TBX19
CC	GO:0043233	organelle lumen	0.983	0.590	31981	1	1.9E-06	2.7E-04	2.00	48	-1.75	ABL1, ACO2, AIFM1, COIL, DDX54, DFFB, DNMT3A, DUSP7, EXOSC2, FKBP4, GEMIN4, GTF2H3, HCFC1, HMGA1, HNRNPL, HSPD1, IVD, KEAP1, LARS2, LAS1L, LIG3, LMNB2, MED12, MIPEP, MPHOSPH6, MRPS15, NF2, NOL12, NOLC1, NVL, OXCT1, PA2G4, PARP1, POLR3H, PSMDB, SET, SMARCB1, SSRP1, SUPT16H, TH1L, THOC4, TOE1, TRIM25, TSR1, UTP20, WDR4	PDIA5, TBX19
CC	GO:0005730	nucleolus	0.858	0.612	31981	1	1.0E-04	4.7E-03	2.51	23	-1.76	ABL1, COIL, DDX54, EXOSC2, FKBP4, GEMIN4, KEAP1, LAS1L, MED12, MPHOSPH6, NF2, NOL12, NOLC1, NVL, PA2G4, PARP1, PSMDB, SMARCB1, TOE1, TRIM25, TSR1, UTP20	TBX19
CC	GO:0070013	intracellular organelle lumen	0.975	0.590	31981	1	9.9E-07	2.8E-04	2.04	48	-1.75	ABL1, ACO2, AIFM1, COIL, DDX54, DFFB, DNMT3A, DUSP7, EXOSC2, FKBP4, GEMIN4, GTF2H3, HCFC1, HMGA1, HNRNPL, HSPD1, IVD, KEAP1, LARS2, LAS1L, LIG3, LMNB2, MED12, MIPEP, MPHOSPH6, MRPS15, NF2, NOL12, NOLC1, NVL, OXCT1, PA2G4, PARP1, POLR3H, PSMDB, SET, SMARCB1, SSRP1, SUPT16H, TH1L, THOC4, TOE1, TRIM25, TSR1, UTP20, WDR4	PDIA5, TBX19
CC	GO:0031975	envelope	0.002	0.597	31975	0	1.2E-03	2.9E-02	2.34	19	-1.72	AIFM1, AIFM2, ALDH18A1, BID, C20orf7, DHODH, EXOG, GCAT, HK2, HSPD1, IPO11, LMNB2, NDUFS3, PARP1, SLC25A33, STOML2, TMPO, TOMM40L	BCL2L11

Supplementary Table 1C

Gene ontology (GO) analyses

GO	GO.TermID	GO.Name	REVIGO results				DAVID results				GE in Combination vs. Control			
			dispensability	Mean kIN _{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated	
CC	GO:0005829	cytosol	0.080	0.563	5829	0	5.0E-04	1.7E-02	1.87	33	-1.66	ABL1, ADA, AHS1, AIFM2, BID, CABLES1, CASP2, CEP192, CIDEB, CTF5, DFFB, DOCK2, DUSP7, FARS1, GEMIN4, GYS1, HK2, HMG1, HSPD1, IARS, LDLRAP1, NTRK2, ODC1, PAK2, PSMDB, SET, SHMT1, SPHK2, TUBB, TUBGCP4, UROD	BCL2L11, RABGAP1	
CC	GO:0043232	intracellular non-membrane-bounded organelle	0.235	0.591	43232	0	2.1E-04	8.4E-03	1.61	53	-1.54	ABL1, ALDOA, CENPV, CEP192, COIL, CORO1B, DDX54, DNMT3A, DOCK2, EXOSC2, FKBP4, GEMIN4, H2AFY, H3F3A, HAUS7, HMG1, HMG2, KEAP1, LAS1, LMNB2, MED12, MPHOSPH6, MRPS15, NF2, NOL12, NOLC1, NTRK2, NVL, PA2G4, PAK2, PARP1, PSMDB, RCC1, SMARCA4, SMARCB1, SSRP1, STAG3L4, STOML2, SUPT16H, TMPO, TOE1, TRIB2, TRIM25, TSR1, TUBB, TUBGCP4, UTP20	APC2, KIF5A, MYO5C, PRDM6, RABGAP1, TBX19	
CC	GO:0043228	non-membrane-bounded organelle	0.362	0.591	43228	0	2.1E-04	8.4E-03	1.61	53	-1.54	ABL1, ALDOA, CENPV, CEP192, COIL, CORO1B, DDX54, DNMT3A, DOCK2, EXOSC2, FKBP4, GEMIN4, H2AFY, H3F3A, HAUS7, HMG1, HMG2, KEAP1, LAS1, LMNB2, MED12, MPHOSPH6, MRPS15, NF2, NOL12, NOLC1, NTRK2, NVL, PA2G4, PAK2, PARP1, PSMDB, RCC1, SMARCA4, SMARCB1, SSRP1, STAG3L4, STOML2, SUPT16H, TMPO, TOE1, TRIB2, TRIM25, TSR1, TUBB, TUBGCP4, UTP20	APC2, KIF5A, MYO5C, PRDM6, RABGAP1, TBX19	
CC	GO:0005739	mitochondrion	0.385	0.575	5739	0	1.6E-03	3.8E-02	1.90	27	-1.38	ACO2, ACP6, AIFM1, AIFM2, ALDH18A1, BID, C20orf7, DHODH, ECH1, EXOG, GCAT, HK2, HSPD1, IVD, LARS2, MIPEP, MRPS15, NDUFS3, OXCT1, SHMT1, SLC25A33, STOML2, TOMM40L, TXNRD2	BCL2L11, IFI6, MAPK10	
CC	GO:0031966	mitochondrial membrane	0.511	0.599	31966	0	1.7E-03	3.6E-02	2.75	14	-1.61	AIFM2, ALDH18A1, BID, C20orf7, DHODH, EXOG, GCAT, HK2, HSPD1, NDUFS3, SLC25A33, STOML2, TOMM40L	BCL2L11	
CC	GO:0044429	mitochondrial part	0.727	0.570	31966	1	8.5E-05	4.7E-03	2.70	21	-1.72	ACO2, AIFM1, AIFM2, ALDH18A1, BID, C20orf7, DHODH, EXOG, GCAT, HK2, HSPD1, IVD, LARS2, MIPEP, MRPS15, NDUFS3, OXCT1, SLC25A33, STOML2, TOMM40L	BCL2L11	
CC	GO:0031967	organelle envelope	0.785	0.597	31966	1	1.1E-03	3.1E-02	2.35	19	-1.72	AIFM1, AIFM2, ALDH18A1, BID, C20orf7, DHODH, EXOG, GCAT, HK2, HSPD1, IPO1, LMNB2, NDUFS3, PARP1, SLC25A33, STOML2, TMPO, TOMM40L	BCL2L11	
CC	GO:0005740	mitochondrial envelope	0.923	0.600	31966	1	1.0E-03	3.1E-02	2.76	15	-1.65	AIFM1, AIFM2, ALDH18A1, BID, C20orf7, DHODH, EXOG, GCAT, HK2, HSPD1, NDUFS3, SLC25A33, STOML2, TOMM40L	BCL2L11	
Springgreen Module														
MF	GO:0008092	cytoskeletal protein binding	0.000	0.561	8092	0	2.5E-04	2.9E-02	2.39	23	1.48	CCRS, KLHL3, PARVB, RANBP10	CAPG, CLIP2, EPB41L5, FMNL2, GSN, HIP1, JUP, KIF18, KPTN, LIMA1, MAPT, MYH11, MYH15, MYO15A, OBSL1, SPIRE1, SYNE2, TNNT1, VCL	
MF	GO:0030695	GTPase regulator activity	0.000	0.553	30695	0	1.8E-07	4.3E-05	3.39	26	1.14	ARHGAP4, DOCK10, MAP4K1, RANBP10, TBC1D9B, TIAM2	ARHGAP17, ARHGAP26, ARHGGEF9, ASAP1, ASAP3, CHN1, CYP11, CYTH5, DNMBP, ERC1, FLJ10357, JUN, RABGAP1L, RALGAP5L, RASA2, RASAL2, RPH3A, SRGAP2, SYTL3, TIAM1	

Supplementary Table 1C

Gene ontology (GO) analyses

GO	GO.TermID	GO.Name	REVIGO results				DAVID results				GE in Combination vs. Control			
			dispensability	Mean kIN _{sc}	GO.select	filter	Pvalue EASE score	FDR Benjamini	Fold Enrichment	N	Mean Fold Change	Genes DOWN-regulated	Genes UP-regulated	
MF	GO:0005083	small GTPase regulator activity	0.947	0.557	30695	1	6.0E-08	2.8E-05	4.19	22	0.95	ARHGAP4, DOCK10, MAP4K1, RANBP10, TBC1D9B, TIAM2	ARHGAP26, ARHGEF9, ASAP1, ASAP3, CYTH1, CYTH3, DNMBP, ERC1, FLI10357, JUN, RABGAP1L, RASA2, RASAL2, RPH3A, SYTL3, TIAM1	
MF	GO:0060589	nucleoside-triphosphatase regulator activity	0.841	0.553	30695	1	2.8E-07	4.4E-05	3.31	26	1.14	ARHGAP4, DOCK10, MAP4K1, RANBP10, TBC1D9B, TIAM2	ARHGAP17, ARHGAP26, ARHGEF9, ASAP1, ASAP3, CHN1, CYTH1, CYTH3, DNMBP, ERC1, FLI10357, JUN, RABGAP1L, RALGPS1, RASA2, RASAL2, RPH3A, SRGAP2, SYTL3, TIAM1	
Red Module														
CC	GO:0012505	endomembrane system	0.000	0.718	12505	0	2.1E-04	1.0E-02	3.74	12	-1.96	B3GAT3, B3GNT1, CORO1A, DHCR7, NRM, PIGU, SCAMP2, SCAMP3, SLC37A4, SREBF1, SSR2, TMEM109		
CC	GO:0016021	integral to membrane	0.003	0.713	16021	0	1.1E-05	1.6E-03	1.80	35	-1.90	ABHD12, ATP6V0B, ATP6V0C, B3GAT3, B3GNT1, C19orf63, C20orf3, CD276, CD320, CD79B, CLN6, DHCR7, DHR57B, IL21R, INSIG1, NIN1, NRM, P2RX4, PAQR4, PIGU, SCAMP2, SCAMP3, SCNN1B, SLC25A25, SLC37A4, SLC39A3, SLC7A11, SREBF1, SSR2, TMED1, TMED3, TMEM109, TNFRSF13B, ZDHHC12	RASGRP3	
CC	GO:0031224	intrinsic to membrane	0.607	0.713	31224	0	2.9E-05	2.1E-03	1.74	35	-1.90	ABHD12, ATP6V0B, ATP6V0C, B3GAT3, B3GNT1, C19orf63, C20orf3, CD276, CD320, CD79B, CLN6, DHCR7, DHR57B, IL21R, INSIG1, NIN1, NRM, P2RX4, PAQR4, PIGU, SCAMP2, SCAMP3, SCNN1B, SLC25A25, SLC37A4, SLC39A3, SLC7A11, SREBF1, SSR2, TMED1, TMED3, TMEM109, TNFRSF13B, ZDHHC12	RASGRP3	

Supplementary Table 1D

GSEA Statistics

Negative Enrichment Score (ES)

GSE6477	NAME	SIZE	ES	NES	NOM.p.val	FDR.q.val	RANK.AT.MAX
NEW	Blue_UP	13	-0.848	-2.29	<1e-4	<1e-4	871
RELAPSED	Blue_UP	13	-0.817	-2.22	<1e-4	<1e-4	1015
SMM	Blue_UP	13	-0.817	-2.28	<1e-4	<1e-4	1529
MGUS	Blue_UP	13	-0.699	-1.94	0.0017	0.0037	3003
RELAPSED	Springgreen_UP	198	-0.377	-1.80	<1e-4	0.0043	2932
NEW	Springgreen_UP	198	-0.361	-1.71	<1e-4	0.0088	2205
SMM	Springgreen_UP	198	-0.268	-1.33	0.0243	0.1648	2472
NEW	Darkgreen_UP	24	-0.357	-1.14	0.2727	0.2318	2755
RELAPSED	Darkgreen_UP	24	-0.335	-1.08	0.3304	0.3042	1852
SMM	Darkgreen_UP	24	-0.332	-1.10	0.3124	0.3756	2142
SMM	Blue_DOWN	81	-0.196	-0.84	0.7850	0.7598	1610
MGUS	Springgreen_DOWN	70	-0.147	-0.61	0.9954	0.9796	3621
MGUS	Darkgreen_DOWN	144	-0.140	-0.66	0.9972	1	2913
MGUS	Darkgreen_UP	24	-0.273	-0.90	0.6005	1	3908
MGUS	Red_DOWN	40	-0.192	-0.71	0.9192	1	1854
MGUS	Blue_DOWN	81	-0.217	-0.93	0.6136	1	1312
MGUS	Springgreen_UP	198	-0.197	-0.97	0.5363	1	2335

Positive Enrichment Score (ES)

GSE6477	NAME	SIZE	ES	NES	NOM.p.val	FDR.q.val	RANK.AT.MAX
RELAPSED	Darkgreen_DOWN	144	0.497	2.20	<1e-4	<1e-4	2683
NEW	Darkgreen_DOWN	144	0.456	2.07	<1e-4	0.0007	1947
RELAPSED	Blue_DOWN	81	0.483	1.94	<1e-4	0.0009	2234
NEW	Red_DOWN	40	0.485	1.72	0.0060	0.0101	2485
RELAPSED	Red_DOWN	40	0.444	1.55	0.0196	0.0293	2288
NEW	Blue_DOWN	81	0.349	1.43	0.0272	0.0682	3892
MGUS	Orange_UP _{MS275}	21	0.400	1.23	0.1807	0.1437	4769
SMM	Orange_UP _{MS275}	21	0.433	1.36	0.1025	0.2624	2906
SMM	Red_DOWN	40	0.298	1.09	0.3104	0.4002	3821
SMM	Darkgreen_DOWN	144	0.236	1.11	0.2340	0.5449	2633
NEW	Orange_UP _{MS275}	21	0.270	0.82	0.7255	0.7931	4074
RELAPSED	Springgreen_DOWN	70	0.166	0.65	0.9847	0.9661	3820
SMM	Springgreen_DOWN	70	0.137	0.57	0.9981	0.9896	4632
NEW	Springgreen_DOWN	70	0.207	0.83	0.7988	0.9905	3646
RELAPSED	Orange_UP _{MS275}	21	0.272	0.82	0.7378	1	3118

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Log2 Fold Change Combination
RELAPSED	Blue_DOWN	DDRGK1	218159_at	129	5.5952	0.0185	Yes	218159_at	-1.0618
RELAPSED	Blue_DOWN	TRIP13	204033_at	133	5.5645	0.0465	Yes	204033_at	-2.5425
RELAPSED	Blue_DOWN	HJURP	218726_at	195	5.1933	0.0682	Yes	218726_at	-1.9264
RELAPSED	Blue_DOWN	MCM10	220651_s_at	242	4.9576	0.0899	Yes	220651_s_at	-2.7011
RELAPSED	Blue_DOWN	RRM2	209773_s_at	253	4.9231	0.1141	Yes	209773_s_at	-3.3973
RELAPSED	Blue_DOWN	CCNB2	202705_at	332	4.6500	0.1317	Yes	202705_at	-2.1340
RELAPSED	Blue_DOWN	RAD51	205024_s_at	373	4.5478	0.1518	Yes	205024_s_at	-1.5192
RELAPSED	Blue_DOWN	GPI	208308_s_at	395	4.4659	0.1728	Yes	208308_s_at	-1.7204
RELAPSED	Blue_DOWN	FDPS	201275_at	522	4.1431	0.1842	Yes	201275_at	-1.4558
RELAPSED	Blue_DOWN	NCAPD3	212789_at	578	4.0306	0.2004	Yes	212789_at	-1.4511
RELAPSED	Blue_DOWN	LDHA	200650_s_at	600	3.9878	0.2191	Yes	200650_s_at	-1.2640
RELAPSED	Blue_DOWN	MCM2	202107_s_at	656	3.9024	0.2347	Yes	202107_s_at	-2.0679
RELAPSED	Blue_DOWN	CENPA	210821_x_at	660	3.8906	0.2542	Yes	204962_s_at	-1.8881
RELAPSED	Blue_DOWN	UBE2C	202954_at	908	3.5272	0.2530	Yes	202954_at	-1.4051
RELAPSED	Blue_DOWN	TMEM48	218073_s_at	916	3.5125	0.2704	Yes	234672_s_at	-1.4764
RELAPSED	Blue_DOWN	MKI67	212021_s_at	940	3.4802	0.2863	Yes	212021_s_at	-1.8786
RELAPSED	Blue_DOWN	CDC20	202870_s_at	960	3.4429	0.3023	Yes	202870_s_at	-1.5564
RELAPSED	Blue_DOWN	CIT	212801_at	1005	3.3970	0.3162	Yes	212801_at	-1.0713
RELAPSED	Blue_DOWN	KIF22	202183_s_at	1014	3.3808	0.3327	Yes	202183_s_at	-1.6422
RELAPSED	Blue_DOWN	TIMELESS	203046_s_at	1133	3.2501	0.3402	Yes	203046_s_at	-1.1575
RELAPSED	Blue_DOWN	NSDHL	209279_s_at	1158	3.2300	0.3547	Yes	209279_s_at	-1.3381
RELAPSED	Blue_DOWN	C1orf112	220840_s_at	1171	3.2161	0.3701	Yes	220840_s_at	-1.6023
RELAPSED	Blue_DOWN	WDR76	205519_at	1174	3.2140	0.3863	Yes	205519_at	-1.4439
RELAPSED	Blue_DOWN	SPAG5	203145_at	1346	3.0210	0.3885	Yes	203145_at	-2.3469
RELAPSED	Blue_DOWN	RAD54L	204558_at	1435	2.9363	0.3966	Yes	204558_at	-1.6082
RELAPSED	Blue_DOWN	NDUFA9	208969_at	1443	2.9265	0.4109	Yes	208969_at	-1.0903
RELAPSED	Blue_DOWN	B4GALNT1	206435_at	1445	2.9244	0.4257	Yes	206435_at	-1.0926
RELAPSED	Blue_DOWN	STK6	208080_at	1506	2.8620	0.4356	Yes	208079_s_at	-1.8883
RELAPSED	Blue_DOWN	RFC2	203696_s_at	1611	2.7822	0.4418	Yes	203696_s_at	-1.5179
RELAPSED	Blue_DOWN	C16orf59	219556_at	1616	2.7796	0.4556	Yes	219556_at	-1.0807
RELAPSED	Blue_DOWN	SLC2A1	201250_s_at	1763	2.6513	0.4578	Yes	201250_s_at	-1.9684
RELAPSED	Blue_DOWN	CDCA3	221436_s_at	1916	2.5188	0.4588	Yes	223307_at	-1.9094
RELAPSED	Blue_DOWN	TACC3	218308_at	1980	2.4728	0.4665	Yes	218308_at	-1.3035
RELAPSED	Blue_DOWN	TUBA1C	209251_x_at	2026	2.4482	0.4755	Yes	209251_x_at	-1.1616
RELAPSED	Blue_DOWN	PGAM1	200886_s_at	2202	2.3157	0.4738	Yes	200886_s_at	-1.2903
RELAPSED	Blue_DOWN	ESPL1	38158_at	2234	2.2999	0.4831	Yes	38158_at	-1.8588
RELAPSED	Blue_DOWN	CDC45L	204126_s_at	2416	2.1831	0.4802	No	204126_s_at	-2.4023
RELAPSED	Blue_DOWN	ATAD2	218782_s_at	2746	1.9874	0.4649	No	218782_s_at	-2.5687
RELAPSED	Blue_DOWN	H2AFX	205436_s_at	2927	1.8902	0.4606	No	205436_s_at	-1.4748
RELAPSED	Blue_DOWN	TUBA1B	211058_x_at	3081	1.8086	0.4580	No	211058_x_at	-1.1876
RELAPSED	Blue_DOWN	SLCO4A1	219911_s_at	3134	1.7744	0.4630	No	219911_s_at	-2.0069
RELAPSED	Blue_DOWN	CDC6	203968_s_at	3282	1.6954	0.4602	No	203968_s_at	-2.5641
RELAPSED	Blue_DOWN	CHAF1B	204775_at	3285	1.6946	0.4687	No	204775_at	-1.3219
RELAPSED	Blue_DOWN	SLC7A5	201195_s_at	3837	1.4381	0.4335	No	201195_s_at	-2.6903
RELAPSED	Blue_DOWN	EBP	213787_s_at	4064	1.3233	0.4227	No	213787_s_at	-1.7595
RELAPSED	Blue_DOWN	POLA2	204441_s_at	4299	1.2071	0.4108	No	204441_s_at	-1.5960
RELAPSED	Blue_DOWN	SLC7A1	212295_s_at	4336	1.1920	0.4141	No	212295_s_at	-1.0932
RELAPSED	Blue_DOWN	FANCG	203564_at	4391	1.1733	0.4159	No	203564_at	-1.1180
RELAPSED	Blue_DOWN	KIF2C	209408_at	4579	1.0956	0.4070	No	209408_at	-2.0440
RELAPSED	Blue_DOWN	TOR3A	218459_at	5039	0.9018	0.3761	No	218459_at	-1.3546
RELAPSED	Blue_DOWN	MYBL2	201710_at	5195	0.8274	0.3684	No	201710_at	-2.6352
RELAPSED	Blue_DOWN	MCM5	201755_at	5591	0.6541	0.3412	No	216237_s_at	-2.2926
RELAPSED	Blue_DOWN	CDC25A	204696_s_at	6005	0.4943	0.3118	No	204695_at	-2.3587
RELAPSED	Blue_DOWN	SUV39H1	218619_s_at	6132	0.4496	0.3044	No	218619_s_at	-1.1582
RELAPSED	Blue_DOWN	SLC35B1	202433_at	6536	0.2903	0.2747	No	202433_at	-0.8310
RELAPSED	Blue_DOWN	LDLR	217173_s_at	6549	0.2867	0.2752	No	202068_s_at	-3.1745
RELAPSED	Blue_DOWN	BLM	205733_at	6657	0.2431	0.2682	No	205733_at	-1.5970
RELAPSED	Blue_DOWN	DBF4B	206661_at	6833	0.1672	0.2556	No	238508_at	-1.7101
RELAPSED	Blue_DOWN	TFRC	207332_s_at	6934	0.1228	0.2485	No	207332_s_at	-1.6352
RELAPSED	Blue_DOWN	PLK1	202240_at	7122	0.0585	0.2343	No	202240_at	-1.9567
RELAPSED	Blue_DOWN	E2F2	207042_at	7247	0.0096	0.2248	No	228361_at	-2.5642
RELAPSED	Blue_DOWN	RBM14	204178_s_at	7573	-0.1153	0.2003	No	204178_s_at	-1.6436
RELAPSED	Blue_DOWN	MPDU1	209208_at	7633	-0.1409	0.1964	No	209208_at	-1.7427
RELAPSED	Blue_DOWN	MCM4	214349_at	8312	-0.4196	0.1462	No	212141_at	-2.3064
RELAPSED	Blue_DOWN	LMAN2L	221274_s_at	8361	-0.4396	0.1447	No	221274_s_at	-0.9061
RELAPSED	Blue_DOWN	CDC25C	216914_at	8559	-0.5303	0.1322	No	205167_s_at	-1.7970
RELAPSED	Blue_DOWN	NCAPH	212949_at	8816	-0.6418	0.1157	No	212949_at	-2.1530
RELAPSED	Blue_DOWN	SLC19A1	209777_s_at	9943	-1.2122	0.0349	No	209777_s_at	-1.4453

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
RELAPSED	Blue_DOWN	TXNDC15	220495_s_at	10021	-1.2624	0.0354	No	220495_s_at	-1.5473
RELAPSED	Blue_DOWN	ELOVL1	218028_at	10515	-1.6001	0.0054	No	57163_at	-1.0254
RELAPSED	Blue_DOWN	LMNB1	203276_at	10790	-1.7920	-0.0066	No	203276_at	-1.5790
RELAPSED	Blue_DOWN	TEX261	212083_at	10963	-1.9292	-0.0101	No	212083_at	-0.9444
RELAPSED	Blue_DOWN	SCARB1	201819_at	11512	-2.4089	-0.0402	No	1552256_a_at	-2.4284
RELAPSED	Blue_DOWN	ZNF107	205739_x_at	11943	-2.9488	-0.0584	No	243312_at	-0.9633
RELAPSED	Blue_DOWN	AMDHD2	219082_at	11980	-2.9996	-0.0459	No	219082_at	-0.8216
RELAPSED	Blue_DOWN	GALE	202528_at	12266	-3.4652	-0.0503	No	202528_at	-1.0641
RELAPSED	Blue_DOWN	FOXM1	214148_at	12373	-3.7001	-0.0397	No	202580_x_at	-2.2845
RELAPSED	Blue_DOWN	TPST2	204079_at	12415	-3.8061	-0.0235	No	204079_at	-0.5365
RELAPSED	Blue_DOWN	SCD	200831_s_at	12468	-3.9750	-0.0073	No	200832_s_at	-2.0573
RELAPSED	Blue_DOWN	DBNDD2	218094_s_at	12648	-4.7521	0.0030	No	238470_at	-0.4043
RELAPSED	Blue_DOWN	CENPM	218741_at	12732	-5.1782	0.0229	No	218741_at	-2.1860
RELAPSED	Blue_UP	CAMSAP1L1	212763_at	3086	1.8072	-0.2019	No	212765_at	0.8007
RELAPSED	Blue_UP	SATB1	203408_s_at	4956	0.9356	-0.3273	No	203408_s_at	2.2924
RELAPSED	Blue_UP	PHC3	215521_at	8656	-0.5726	-0.6004	No	226508_at	1.3199
RELAPSED	Blue_UP	CALCOCO1	209002_s_at	11181	-2.1165	-0.7531	No	209002_s_at	1.3443
RELAPSED	Blue_UP	HLA-DRB4	209728_at	12016	-3.0505	-0.7579	Yes	209728_at	3.1361
RELAPSED	Blue_UP	HLA-DRB6	217362_x_at	12337	-3.6077	-0.7124	Yes	217362_x_at	1.3574
RELAPSED	Blue_UP	LOC731682	212671_s_at	12698	-5.0029	-0.6428	Yes	212671_s_at	2.2805
RELAPSED	Blue_UP	HLA-DMA	217478_s_at	12750	-5.2774	-0.5441	Yes	217478_s_at	1.4991
RELAPSED	Blue_UP	HLA-DRB1	204670_x_at	12760	-5.3403	-0.4410	Yes	208306_x_at	1.2895
RELAPSED	Blue_UP	SPARCL1	200795_at	12773	-5.3886	-0.3372	Yes	200795_at	1.1056
RELAPSED	Blue_UP	HLA-DQB1	211654_x_at	12782	-5.4329	-0.2322	Yes	211654_x_at	1.3513
RELAPSED	Blue_UP	HLA-DPB1	201137_s_at	12883	-6.3478	-0.1164	Yes	201137_s_at	1.5092
RELAPSED	Blue_UP	LOC100294276	209312_x_at	12901	-6.5635	0.0098	Yes	209312_x_at	1.3887
RELAPSED	Darkgreen_DOWN	SET	200630_x_at	62	6.3658	0.0154	Yes	200630_x_at	-0.6487
RELAPSED	Darkgreen_DOWN	PA2G4	208676_s_at	131	5.5736	0.0278	Yes	208676_s_at	-0.8555
RELAPSED	Darkgreen_DOWN	STOML2	215416_s_at	179	5.3046	0.0409	Yes	215416_s_at	-1.2177
RELAPSED	Darkgreen_DOWN	CTPS	202613_at	200	5.1687	0.0558	Yes	202613_at	-1.3500
RELAPSED	Darkgreen_DOWN	TUBB	211714_x_at	218	5.0694	0.0705	Yes	211714_x_at	-1.5976
RELAPSED	Darkgreen_DOWN	PPP2R4	208874_x_at	219	5.0638	0.0866	Yes	206452_x_at	-1.1045
RELAPSED	Darkgreen_DOWN	FAM20B	202915_s_at	251	4.9331	0.0998	Yes	202916_s_at	-0.8598
RELAPSED	Darkgreen_DOWN	ANP32B	201306_s_at	274	4.8179	0.1134	Yes	201306_s_at	-1.2696
RELAPSED	Darkgreen_DOWN	UTP20	209725_at	283	4.7962	0.1280	Yes	209725_at	-1.0034
RELAPSED	Darkgreen_DOWN	HNRNPL	35201_at	299	4.7494	0.1419	Yes	35201_at	-0.6733
RELAPSED	Darkgreen_DOWN	EXOSC2	214507_s_at	380	4.5042	0.1499	Yes	209527_at	-0.8969
RELAPSED	Darkgreen_DOWN	ZNF696	220967_s_at	424	4.3760	0.1605	Yes	220967_s_at	-0.5543
RELAPSED	Darkgreen_DOWN	OBFC2B	218903_s_at	463	4.2773	0.1711	Yes	218903_s_at	-1.0793
RELAPSED	Darkgreen_DOWN	TTLL12	216251_s_at	495	4.2001	0.1820	Yes	1552257_a_at	-0.8222
RELAPSED	Darkgreen_DOWN	AVEN	219366_at	498	4.1955	0.1951	Yes	219366_at	-1.1898
RELAPSED	Darkgreen_DOWN	UBL4A	221746_at	548	4.0907	0.2043	Yes	221746_at	-0.8816
RELAPSED	Darkgreen_DOWN	H3F3A	213828_x_at	593	4.0070	0.2136	Yes	213828_x_at	-0.5502
RELAPSED	Darkgreen_DOWN	HCFC1	202474_s_at	606	3.9773	0.2253	Yes	202474_s_at	-0.8665
RELAPSED	Darkgreen_DOWN	CASP2	209812_x_at	748	3.7654	0.2263	Yes	226032_at	-0.3234
RELAPSED	Darkgreen_DOWN	SLC10A3	204928_s_at	828	3.6249	0.2316	Yes	204928_s_at	-0.8831
RELAPSED	Darkgreen_DOWN	HNRNPAB	201277_s_at	829	3.6242	0.2431	Yes	201277_s_at	-0.9573
RELAPSED	Darkgreen_DOWN	TXNRD2	211177_s_at	858	3.5880	0.2523	Yes	211177_s_at	-0.9959
RELAPSED	Darkgreen_DOWN	HAUS7	213334_x_at	862	3.5795	0.2634	Yes	213334_x_at	-1.1222
RELAPSED	Darkgreen_DOWN	NTRK2	207152_at	893	3.5452	0.2723	Yes	221795_at	-1.3961
RELAPSED	Darkgreen_DOWN	HSPD1	200807_s_at	895	3.5440	0.2835	Yes	200807_s_at	-0.7713
RELAPSED	Darkgreen_DOWN	MRPS15	221437_s_at	918	3.5115	0.2929	Yes	226296_s_at	-1.1799
RELAPSED	Darkgreen_DOWN	SMARCA4	212520_s_at	948	3.4679	0.3017	Yes	213720_s_at	-0.8869
RELAPSED	Darkgreen_DOWN	ACP6	218795_at	1006	3.3965	0.3080	Yes	218795_at	-0.7372
RELAPSED	Darkgreen_DOWN	TMEM231	219182_at	1008	3.3912	0.3187	Yes	219182_at	-0.8038
RELAPSED	Darkgreen_DOWN	ALDOA	214687_x_at	1096	3.2870	0.3224	Yes	200966_x_at	-1.5531
RELAPSED	Darkgreen_DOWN	FARSA	216602_s_at	1100	3.2844	0.3325	Yes	202159_at	-0.5879
RELAPSED	Darkgreen_DOWN	TH1L	220607_x_at	1104	3.2803	0.3427	Yes	225006_x_at	-0.7325
RELAPSED	Darkgreen_DOWN	AIFM1	205512_s_at	1130	3.2555	0.3511	Yes	205512_s_at	-1.1566
RELAPSED	Darkgreen_DOWN	PSMD8	200820_at	1139	3.2455	0.3608	Yes	200820_at	-1.0159
RELAPSED	Darkgreen_DOWN	WBSCR16	221247_s_at	1180	3.2048	0.3678	Yes	221247_s_at	-1.3786
RELAPSED	Darkgreen_DOWN	IARS	204744_s_at	1195	3.1883	0.3768	Yes	204744_s_at	-0.6682
RELAPSED	Darkgreen_DOWN	LDLRAP1	57082_at	1200	3.1828	0.3866	Yes	57082_at	-0.9713
RELAPSED	Darkgreen_DOWN	SSRP1	200957_s_at	1220	3.1613	0.3952	Yes	200957_s_at	-1.0802
RELAPSED	Darkgreen_DOWN	HDGF	200896_x_at	1253	3.1247	0.4026	Yes	200896_x_at	-1.6718
RELAPSED	Darkgreen_DOWN	NOLC1	211951_at	1257	3.1190	0.4122	Yes	211951_at	-0.6006
RELAPSED	Darkgreen_DOWN	DHODH	213632_at	1273	3.1067	0.4209	Yes	213632_at	-1.0196
RELAPSED	Darkgreen_DOWN	LAS1L	208117_s_at	1400	2.9714	0.4206	Yes	208117_s_at	-0.6863

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
RELAPSED	Darkgreen_DOWN	NDUFS3	201740_at	1513	2.8581	0.4209	Yes	201740_at	-0.7718
RELAPSED	Darkgreen_DOWN	HMGA1	206074_s_at	1609	2.7830	0.4224	Yes	206074_s_at	-0.8315
RELAPSED	Darkgreen_DOWN	MEPCE	219798_s_at	1721	2.6916	0.4223	Yes	219798_s_at	-0.5653
RELAPSED	Darkgreen_DOWN	KEAP1	202417_at	1776	2.6446	0.4265	Yes	202417_at	-1.0833
RELAPSED	Darkgreen_DOWN	SNRPA	201770_at	1833	2.5985	0.4304	Yes	201770_at	-1.0990
RELAPSED	Darkgreen_DOWN	ECH1	200789_at	1834	2.5970	0.4386	Yes	200789_at	-0.9580
RELAPSED	Darkgreen_DOWN	CWF19L1	218787_x_at	1870	2.5652	0.4440	Yes	233568_x_at	-0.5411
RELAPSED	Darkgreen_DOWN	LMNB2	216952_s_at	1956	2.4871	0.4453	Yes	216952_s_at	-0.5609
RELAPSED	Darkgreen_DOWN	NR2F6	209262_s_at	1981	2.4718	0.4513	Yes	209262_s_at	-0.6575
RELAPSED	Darkgreen_DOWN	GYS1	201673_s_at	2017	2.4539	0.4564	Yes	201673_s_at	-1.0184
RELAPSED	Darkgreen_DOWN	OXC1	202780_at	2059	2.4173	0.4609	Yes	202780_at	-1.1391
RELAPSED	Darkgreen_DOWN	C2orf18	219783_at	2139	2.3666	0.4622	Yes	225695_at	-0.9088
RELAPSED	Darkgreen_DOWN	LASS2	222212_s_at	2171	2.3438	0.4672	Yes	222212_s_at	-0.8812
RELAPSED	Darkgreen_DOWN	WDR4	221632_s_at	2193	2.3244	0.4730	Yes	241937_s_at	-0.9790
RELAPSED	Darkgreen_DOWN	FASTKD2	216996_s_at	2248	2.2891	0.4761	Yes	216996_s_at	-0.7328
RELAPSED	Darkgreen_DOWN	PARP1	208644_at	2284	2.2666	0.4805	Yes	208644_at	-0.7776
RELAPSED	Darkgreen_DOWN	STAG3L4	218994_s_at	2348	2.2203	0.4827	Yes	222801_s_at	-0.8323
RELAPSED	Darkgreen_DOWN	GCAT	36475_at	2433	2.1706	0.4830	Yes	205164_at	-0.8760
RELAPSED	Darkgreen_DOWN	MBTPS2	206473_at	2447	2.1620	0.4889	Yes	226760_at	-1.0883
RELAPSED	Darkgreen_DOWN	SNRNP25	218493_at	2535	2.1041	0.4888	Yes	218493_at	-1.6572
RELAPSED	Darkgreen_DOWN	ODC1	200790_at	2616	2.0576	0.4891	Yes	200790_at	-1.2573
RELAPSED	Darkgreen_DOWN	NASP	201970_s_at	2678	2.0217	0.4908	Yes	201970_s_at	-1.1638
RELAPSED	Darkgreen_DOWN	HK2	202934_at	2683	2.0188	0.4969	Yes	202934_at	-1.3557
RELAPSED	Darkgreen_DOWN	TUBGCP4	211337_s_at	2900	1.8994	0.4861	No	211337_s_at	-0.7043
RELAPSED	Darkgreen_DOWN	ADAM22	208227_x_at	2916	1.8947	0.4910	No	208227_x_at	-0.9814
RELAPSED	Darkgreen_DOWN	DUSP7	213848_at	3106	1.7915	0.4820	No	213848_at	-0.6568
RELAPSED	Darkgreen_DOWN	RCC1	215747_s_at	3140	1.7679	0.4850	No	206499_s_at	-1.2427
RELAPSED	Darkgreen_DOWN	TMPO	203432_at	3267	1.7037	0.4807	No	209753_s_at	-1.5300
RELAPSED	Darkgreen_DOWN	TRMT2B	205238_at	3339	1.6687	0.4804	No	205238_at	-1.5340
RELAPSED	Darkgreen_DOWN	MFNG	204153_s_at	3454	1.6129	0.4767	No	204153_s_at	-1.2757
RELAPSED	Darkgreen_DOWN	TRIM25	206911_at	3477	1.6021	0.4801	No	224806_at	-0.6249
RELAPSED	Darkgreen_DOWN	ADA	204639_at	3665	1.5152	0.4704	No	204639_at	-1.2155
RELAPSED	Darkgreen_DOWN	DDX54	219111_s_at	3776	1.4633	0.4665	No	219111_s_at	-1.0228
RELAPSED	Darkgreen_DOWN	SPHK2	209857_s_at	3833	1.4391	0.4667	No	40273_at	-0.8702
RELAPSED	Darkgreen_DOWN	SUPT16H	217815_at	3835	1.4387	0.4712	No	217815_at	-0.5370
RELAPSED	Darkgreen_DOWN	TSHR	215443_at	3924	1.3918	0.4688	No	215443_at	-1.4748
RELAPSED	Darkgreen_DOWN	PRR3	204795_at	4040	1.3336	0.4641	No	204795_at	-0.7039
RELAPSED	Darkgreen_DOWN	IVD	203682_s_at	4126	1.2920	0.4616	No	225311_at	-0.5473
RELAPSED	Darkgreen_DOWN	FKBP4	200895_s_at	4181	1.2618	0.4614	No	200895_s_at	-1.1436
RELAPSED	Darkgreen_DOWN	EXOG	205521_at	4435	1.1541	0.4454	No	205521_at	-1.0107
RELAPSED	Darkgreen_DOWN	C20orf7	219524_s_at	4555	1.1033	0.4397	No	227160_s_at	-0.7371
RELAPSED	Darkgreen_DOWN	GTF2H3	222104_x_at	4573	1.0975	0.4418	No	1554599_x_at	-0.6423
RELAPSED	Darkgreen_DOWN	AHSA1	201491_at	4612	1.0833	0.4423	No	201491_at	-0.9841
RELAPSED	Darkgreen_DOWN	TRIB2	202479_s_at	4816	0.9907	0.4297	No	202478_at	-0.7855
RELAPSED	Darkgreen_DOWN	TSR1	218155_x_at	4893	0.9621	0.4268	No	218156_s_at	-1.4890
RELAPSED	Darkgreen_DOWN	WDR77	201420_s_at	5094	0.8752	0.4141	No	201421_s_at	-0.5241
RELAPSED	Darkgreen_DOWN	UROD	208971_at	5159	0.8491	0.4118	No	208970_s_at	-0.6909
RELAPSED	Darkgreen_DOWN	ALDH18A1	217791_s_at	5322	0.7769	0.4017	No	217791_s_at	-0.8960
RELAPSED	Darkgreen_DOWN	LOC389906	59433_at	5648	0.6302	0.3785	No	1556102_x_at	-0.4763
RELAPSED	Darkgreen_DOWN	TOE1	204080_at	5739	0.5931	0.3734	No	204080_at	-1.0473
RELAPSED	Darkgreen_DOWN	ACACA	212186_at	6088	0.4629	0.3479	No	212186_at	-0.8638
RELAPSED	Darkgreen_DOWN	NVL	207877_s_at	6282	0.3882	0.3341	No	207877_s_at	-0.6853
RELAPSED	Darkgreen_DOWN	FAM57A	218898_at	6447	0.3281	0.3224	No	218898_at	-1.7645
RELAPSED	Darkgreen_DOWN	DNASE1L1	203912_s_at	6579	0.2749	0.3131	No	203912_s_at	-1.0443
RELAPSED	Darkgreen_DOWN	GEMIN4	217099_s_at	6586	0.2711	0.3135	No	217099_s_at	-1.0276
RELAPSED	Darkgreen_DOWN	SF3B3	200687_s_at	6633	0.2539	0.3108	No	200687_s_at	-0.7666
RELAPSED	Darkgreen_DOWN	ACO2	200793_s_at	6640	0.2519	0.3111	No	200793_s_at	-0.9497
RELAPSED	Darkgreen_DOWN	GPATCH1	219818_s_at	6673	0.2377	0.3094	No	219818_s_at	-0.6849
RELAPSED	Darkgreen_DOWN	MIPEP	204305_at	6750	0.2026	0.3041	No	204305_at	-0.8696
RELAPSED	Darkgreen_DOWN	PAK2	208877_at	6756	0.2014	0.3044	No	208877_at	-0.6734
RELAPSED	Darkgreen_DOWN	CHD1L	212539_at	6920	0.1281	0.2921	No	212539_at	-0.8681
RELAPSED	Darkgreen_DOWN	COIL	203654_s_at	7197	0.0289	0.2708	No	203654_s_at	-0.6094
RELAPSED	Darkgreen_DOWN	PPPDE2	212527_at	7229	0.0144	0.2684	No	212527_at	-0.8438
RELAPSED	Darkgreen_DOWN	JMJD4	218560_s_at	7357	-0.0285	0.2587	No	218560_s_at	-0.9034
RELAPSED	Darkgreen_DOWN	HMG2	208668_x_at	7464	-0.0749	0.2507	No	208668_x_at	-1.0775
RELAPSED	Darkgreen_DOWN	THOC5	209418_s_at	7505	-0.0887	0.2478	No	209418_s_at	-0.7584
RELAPSED	Darkgreen_DOWN	BID	211725_s_at	7733	-0.1828	0.2308	No	211725_s_at	-1.3437
RELAPSED	Darkgreen_DOWN	HNRNPA3P1	206809_s_at	7871	-0.2393	0.2209	No	206809_s_at	-1.2047

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RELAPSED	Darkgreen_DOWN	GMP	218913_s_at	7905	-0.2534	0.2192	No	218913_s_at	-0.6103
RELAPSED	Darkgreen_DOWN	SFMBT1	213370_s_at	8017	-0.2951	0.2115	No	213370_s_at	-0.6881
RELAPSED	Darkgreen_DOWN	LARS2	204016_at	8168	-0.3576	0.2010	No	204016_at	-0.7286
RELAPSED	Darkgreen_DOWN	USP13	205356_at	8298	-0.4157	0.1923	No	205356_at	-0.8452
RELAPSED	Darkgreen_DOWN	MED25	208110_x_at	8469	-0.4948	0.1807	No	1553993_s_at	-0.6889
RELAPSED	Darkgreen_DOWN	CCDC22	214037_s_at	8712	-0.6004	0.1638	No	206016_at	-0.8115
RELAPSED	Darkgreen_DOWN	NT5DC2	218051_s_at	8716	-0.6008	0.1655	No	218051_s_at	-1.2878
RELAPSED	Darkgreen_DOWN	MPHOSPH6	203740_at	8749	-0.6126	0.1649	No	203740_at	-1.0146
RELAPSED	Darkgreen_DOWN	DCPS	218774_at	9158	-0.8174	0.1359	No	218774_at	-1.3790
RELAPSED	Darkgreen_DOWN	AGAP1	204066_s_at	9351	-0.9111	0.1238	No	204066_s_at	-1.1009
RELAPSED	Darkgreen_DOWN	H2AFY	207168_s_at	9384	-0.9287	0.1243	No	207168_s_at	-0.6011
RELAPSED	Darkgreen_DOWN	MAPKAPK5	212871_at	9663	-1.0671	0.1061	No	212871_at	-1.1799
RELAPSED	Darkgreen_DOWN	NOL12	219324_at	9839	-1.1574	0.0962	No	219324_at	-1.3931
RELAPSED	Darkgreen_DOWN	FAM118A	219629_at	9860	-1.1660	0.0984	No	226475_at	-0.4186
RELAPSED	Darkgreen_DOWN	MGC72080	217499_x_at	9951	-1.2165	0.0952	No	217499_x_at	-1.7349
RELAPSED	Darkgreen_DOWN	MED12	211342_x_at	10043	-1.2734	0.0922	No	216071_x_at	-0.6591
RELAPSED	Darkgreen_DOWN	NF2	218915_at	10086	-1.3030	0.0931	No	218915_at	-0.8814
RELAPSED	Darkgreen_DOWN	MGLL	211026_s_at	10305	-1.4409	0.0807	No	211026_s_at	-1.2329
RELAPSED	Darkgreen_DOWN	DFFB	206752_s_at	10395	-1.5088	0.0786	No	206752_s_at	-0.6100
RELAPSED	Darkgreen_DOWN	CEP192	218827_s_at	10498	-1.5855	0.0757	No	218827_s_at	-0.5851
RELAPSED	Darkgreen_DOWN	SMARCB1	212167_s_at	10649	-1.6943	0.0694	No	212167_s_at	-1.0464
RELAPSED	Darkgreen_DOWN	LIG3	207348_s_at	10651	-1.6966	0.0747	No	204123_at	-1.5025
RELAPSED	Darkgreen_DOWN	IKBKE	204549_at	10759	-1.7702	0.0721	No	204549_at	-0.7580
RELAPSED	Darkgreen_DOWN	MGC5566	220449_at	11049	-2.0001	0.0560	No	220449_at	-0.8044
RELAPSED	Darkgreen_DOWN	SCMH1	221216_s_at	11108	-2.0542	0.0580	No	221216_s_at	-0.6497
RELAPSED	Darkgreen_DOWN	INPP5A	203006_at	11147	-2.0950	0.0617	No	203006_at	-0.7522
RELAPSED	Darkgreen_DOWN	BTN3A2	209846_s_at	11207	-2.1383	0.0639	No	209846_s_at	-0.4424
RELAPSED	Darkgreen_DOWN	ABL1	202123_s_at	11570	-2.4771	0.0436	No	202123_s_at	-0.6077
RELAPSED	Darkgreen_DOWN	DNMT3A	218457_s_at	11608	-2.5326	0.0488	No	222640_at	-0.8989
RELAPSED	Darkgreen_DOWN	P2RX5	210448_s_at	11648	-2.5855	0.0540	No	210448_s_at	-1.2148
RELAPSED	Darkgreen_DOWN	CORO1B	64486_at	11825	-2.7980	0.0492	No	64486_at	-0.5557
RELAPSED	Darkgreen_DOWN	DOCK2	213160_at	12406	-3.7855	0.0162	No	213160_at	-0.9284
RELAPSED	Darkgreen_DOWN	SHMT1	209980_s_at	12630	-4.6396	0.0136	No	224954_at	-0.7602
RELAPSED	Darkgreen_DOWN	CIDEB	221188_s_at	12784	-5.4631	0.0190	No	221188_s_at	-0.7572
RELAPSED	Red_DOWN	B3GAT3	203452_at	222	5.0576	0.0417	Yes	203452_at	-0.6670
RELAPSED	Red_DOWN	SSR2	200652_at	228	5.0055	0.0995	Yes	200652_at	-0.4014
RELAPSED	Red_DOWN	CD320	218529_at	269	4.8401	0.1527	Yes	218529_at	-1.4256
RELAPSED	Red_DOWN	SCAMP3	201771_at	392	4.4735	0.1953	Yes	201771_at	-0.8416
RELAPSED	Red_DOWN	HIST1H2AJ	208583_x_at	546	4.0930	0.2311	Yes	208583_x_at	-0.7033
RELAPSED	Red_DOWN	TMED1	203679_at	810	3.6501	0.2532	Yes	203679_at	-1.1221
RELAPSED	Red_DOWN	HMBS	203040_s_at	830	3.6231	0.2939	Yes	203040_s_at	-0.5190
RELAPSED	Red_DOWN	TMED3	208837_at	1037	3.3568	0.3170	Yes	208837_at	-0.8660
RELAPSED	Red_DOWN	PTTG1	203554_x_at	1248	3.1302	0.3373	Yes	203554_x_at	-0.8401
RELAPSED	Red_DOWN	SCAMP2	218143_s_at	1416	2.9547	0.3587	Yes	218143_s_at	-0.9440
RELAPSED	Red_DOWN	DHCR7	201790_s_at	1463	2.9060	0.3890	Yes	201791_s_at	-1.5161
RELAPSED	Red_DOWN	SMPD1	209420_s_at	1597	2.7967	0.4112	Yes	209420_s_at	-0.7122
RELAPSED	Red_DOWN	CLN6	218161_s_at	1656	2.7440	0.4387	Yes	1567080_s_at	-1.0284
RELAPSED	Red_DOWN	CORO1A	209083_at	2191	2.3267	0.4246	Yes	209083_at	-1.5068
RELAPSED	Red_DOWN	INHBE	210587_at	2288	2.2638	0.4435	Yes	210587_at	-3.5505
RELAPSED	Red_DOWN	SLC37A4	202830_s_at	2772	1.9665	0.4292	No	202830_s_at	-0.7995
RELAPSED	Red_DOWN	SLC7A11	207528_s_at	3605	1.5387	0.3830	No	209921_at	-2.0492
RELAPSED	Red_DOWN	TROAP	204649_at	3944	1.3797	0.3731	No	1568596_a_at	-1.0917
RELAPSED	Red_DOWN	ATP6VOB	200078_s_at	4290	1.2127	0.3606	No	200078_s_at	-0.8093
RELAPSED	Red_DOWN	TMEM109	201361_at	5650	0.6302	0.2633	No	201361_at	-0.6692
RELAPSED	Red_DOWN	KIFC1	209680_s_at	5701	0.6070	0.2665	No	209680_s_at	-1.0635
RELAPSED	Red_DOWN	ABHD11	221927_s_at	6076	0.4685	0.2432	No	221927_s_at	-0.5400
RELAPSED	Red_DOWN	VAV1	206219_s_at	6286	0.3869	0.2316	No	206219_s_at	-0.8382
RELAPSED	Red_DOWN	SREBF1	202308_at	7719	-0.1743	0.1234	No	202308_at	-1.5501
RELAPSED	Red_DOWN	UPP1	203234_at	7758	-0.1941	0.1227	No	203234_at	-0.7584
RELAPSED	Red_DOWN	CD79B	205297_s_at	8311	-0.4196	0.0851	No	205297_s_at	-1.1874
RELAPSED	Red_DOWN	DHRS7B	220690_s_at	8600	-0.5498	0.0693	No	220690_s_at	-1.1801
RELAPSED	Red_DOWN	C20orf3	206656_s_at	8672	-0.5816	0.0706	No	206656_s_at	-0.4617
RELAPSED	Red_DOWN	PAQR4	212858_at	8936	-0.7100	0.0586	No	212858_at	-0.5606
RELAPSED	Red_DOWN	TNFRSF13B	207641_at	9372	-0.9222	0.0358	No	207641_at	-0.9554
RELAPSED	Red_DOWN	GLT25D1	218473_s_at	9550	-1.0132	0.0340	No	218473_s_at	-0.8308
RELAPSED	Red_DOWN	ATP6V0C	36994_at	9607	-1.0407	0.0418	No	36994_at	-0.7413
RELAPSED	Red_DOWN	B3GNT1	203188_at	9795	-1.1335	0.0405	No	203188_at	-0.4636
RELAPSED	Red_DOWN	INSIG1	201627_s_at	9826	-1.1512	0.0516	No	201625_s_at	-2.5371

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RELAPSED	Red_DOWN	P2RX4	204088_at	10907	-1.8877	-0.0096	No	204088_at	-1.0043
RELAPSED	Red_DOWN	DIAPH1	215541_s_at	11154	-2.1002	-0.0041	No	209190_s_at	-0.6448
RELAPSED	Red_DOWN	IL21R	221658_s_at	11635	-2.5666	-0.0112	No	221658_s_at	-0.9819
RELAPSED	Red_DOWN	NEU1	208926_at	11686	-2.6250	0.0154	No	208926_at	-1.4294
RELAPSED	Red_DOWN	NINJ1	203045_at	12396	-3.7631	0.0046	No	203045_at	-0.5586
RELAPSED	Red_DOWN	SCNN1B	205464_at	12407	-3.7926	0.0479	No	205464_at	-1.6399
RELAPSED	Springgreen_UP	PEX16	49878_at	77	6.1415	0.0097	No	49878_at	0.3663
RELAPSED	Springgreen_UP	NCAM1	212843_at	371	4.5538	-0.0014	No	227394_at	2.6276
RELAPSED	Springgreen_UP	BCAS4	220588_at	481	4.2354	0.0009	No	228787_s_at	0.6012
RELAPSED	Springgreen_UP	SND1	201622_at	507	4.1796	0.0097	No	201622_at	0.3683
RELAPSED	Springgreen_UP	HRASLS2	216760_at	558	4.0683	0.0162	No	221122_at	2.3804
RELAPSED	Springgreen_UP	EEF1A2	204540_at	609	3.9678	0.0225	No	204540_at	1.2188
RELAPSED	Springgreen_UP	ARHGEF9	203263_s_at	650	3.9132	0.0294	No	203264_s_at	1.1637
RELAPSED	Springgreen_UP	IL12A	207160_at	713	3.8174	0.0343	No	207160_at	0.7546
RELAPSED	Springgreen_UP	FBXL2	214436_at	823	3.6326	0.0352	No	214436_at	0.9636
RELAPSED	Springgreen_UP	CBLN1	205747_at	966	3.4399	0.0329	No	205747_at	0.4504
RELAPSED	Springgreen_UP	GPRC5D	221297_at	1007	3.3955	0.0385	No	221297_at	1.4466
RELAPSED	Springgreen_UP	PTPRD	205712_at	1140	3.2449	0.0365	No	214043_at	1.3101
RELAPSED	Springgreen_UP	CYP26B1	219825_at	1239	3.1458	0.0369	No	219825_at	1.8184
RELAPSED	Springgreen_UP	C7orf58	220032_at	1264	3.1128	0.0430	No	228728_at	1.2195
RELAPSED	Springgreen_UP	SERPINI1	205352_at	1429	2.9449	0.0378	No	205352_at	1.2988
RELAPSED	Springgreen_UP	PPAP2A	209147_s_at	1590	2.8000	0.0325	No	209147_s_at	0.9661
RELAPSED	Springgreen_UP	SATB2	213435_at	1591	2.8000	0.0397	No	213435_at	1.0194
RELAPSED	Springgreen_UP	SERPINE1	202627_s_at	1822	2.6065	0.0284	No	202627_s_at	0.7062
RELAPSED	Springgreen_UP	NBEA	221207_s_at	1907	2.5253	0.0284	No	226439_s_at	0.7562
RELAPSED	Springgreen_UP	MYH15	215331_at	2016	2.4546	0.0262	No	215331_at	0.7231
RELAPSED	Springgreen_UP	TDRD7	213361_at	2046	2.4254	0.0302	No	213361_at	1.7645
RELAPSED	Springgreen_UP	CYP2R1	207786_at	2108	2.3826	0.0315	No	227109_at	0.5272
RELAPSED	Springgreen_UP	EXOC6B	215417_at	2346	2.2205	0.0188	No	225900_at	1.4931
RELAPSED	Springgreen_UP	RPH3A	205230_at	2376	2.2035	0.0222	No	205230_at	0.2624
RELAPSED	Springgreen_UP	CHST11	219634_at	2413	2.1850	0.0249	No	226372_at	0.7049
RELAPSED	Springgreen_UP	UPK1A	214624_at	2571	2.0789	0.0180	No	214624_at	1.1307
RELAPSED	Springgreen_UP	ASPHD1	214993_at	2638	2.0421	0.0181	No	1553997_a_at	0.5512
RELAPSED	Springgreen_UP	LOC730227	215756_at	2994	1.8536	-0.0048	No	215756_at	0.6852
RELAPSED	Springgreen_UP	PLA2G12A	221027_s_at	3136	1.7700	-0.0112	No	242323_at	0.9317
RELAPSED	Springgreen_UP	NR4A3	209959_at	3362	1.6572	-0.0245	No	209959_at	0.3849
RELAPSED	Springgreen_UP	RASAL2	219026_s_at	3406	1.6385	-0.0237	No	222810_s_at	1.6667
RELAPSED	Springgreen_UP	FSD1	219170_at	3419	1.6306	-0.0204	No	219170_at	0.4872
RELAPSED	Springgreen_UP	BTG1	200920_s_at	3684	1.5094	-0.0371	No	200920_s_at	1.3862
RELAPSED	Springgreen_UP	RIMS3	210991_s_at	3731	1.4850	-0.0369	No	204730_at	0.4244
RELAPSED	Springgreen_UP	HBG2	204419_x_at	3734	1.4833	-0.0333	No	213515_x_at	1.0411
RELAPSED	Springgreen_UP	HBE1	205919_at	3827	1.4406	-0.0368	No	205919_at	2.2651
RELAPSED	Springgreen_UP	H1FX	204805_s_at	3933	1.3852	-0.0414	No	204805_s_at	1.6177
RELAPSED	Springgreen_UP	ERC1	215606_s_at	3959	1.3718	-0.0398	No	226049_at	0.9883
RELAPSED	Springgreen_UP	AP3M2	203410_at	4034	1.3344	-0.0422	No	203410_at	0.8868
RELAPSED	Springgreen_UP	DNM1	217341_at	4233	1.2381	-0.0544	No	215116_s_at	0.9290
RELAPSED	Springgreen_UP	SILV	209848_s_at	4266	1.2242	-0.0538	No	209848_s_at	1.4400
RELAPSED	Springgreen_UP	PRAME	204086_at	4522	1.1152	-0.0708	No	204086_at	1.2914
RELAPSED	Springgreen_UP	SQRDL	217995_at	4604	1.0863	-0.0743	No	217995_at	0.3155
RELAPSED	Springgreen_UP	ARHGAP26	205068_s_at	4668	1.0593	-0.0765	No	205068_s_at	0.3358
RELAPSED	Springgreen_UP	MYH11	201497_x_at	4711	1.0419	-0.0771	No	201497_x_at	1.2708
RELAPSED	Springgreen_UP	HHLA3	220387_s_at	4752	1.0211	-0.0776	No	234665_x_at	0.8157
RELAPSED	Springgreen_UP	LHPP	215061_at	4774	1.0118	-0.0767	No	218523_at	0.8186
RELAPSED	Springgreen_UP	CAV1	203065_s_at	4880	0.9665	-0.0824	No	203065_s_at	1.6979
RELAPSED	Springgreen_UP	OBSL1	214928_at	4934	0.9440	-0.0841	No	213946_s_at	1.2912
RELAPSED	Springgreen_UP	TMCC2	213096_at	4945	0.9419	-0.0825	No	213096_at	0.8882
RELAPSED	Springgreen_UP	MICAL2	212472_at	5025	0.9086	-0.0863	No	212473_s_at	0.6345
RELAPSED	Springgreen_UP	CHST7	206756_at	5037	0.9027	-0.0848	No	206756_at	0.7672
RELAPSED	Springgreen_UP	IL15	205992_s_at	5149	0.8531	-0.0913	No	205992_s_at	2.3102
RELAPSED	Springgreen_UP	PIK3CD	211230_s_at	5177	0.8428	-0.0912	No	203879_at	1.0301
RELAPSED	Springgreen_UP	KLHL25	210307_s_at	5341	0.7694	-0.1020	No	210307_s_at	0.3425
RELAPSED	Springgreen_UP	SYT11	209197_at	5411	0.7368	-0.1055	No	209197_at	1.3400
RELAPSED	Springgreen_UP	SRGN	201858_s_at	5455	0.7205	-0.1070	No	201858_s_at	0.4139
RELAPSED	Springgreen_UP	PBX1	212151_at	5484	0.7046	-0.1073	No	212151_at	1.2989
RELAPSED	Springgreen_UP	KIAA0319	206017_at	5509	0.6921	-0.1074	No	206017_at	0.6121
RELAPSED	Springgreen_UP	MARCH2	210075_at	5513	0.6904	-0.1059	No	210075_at	0.7438
RELAPSED	Springgreen_UP	RASA2	206636_at	5606	0.6496	-0.1114	No	230669_at	0.9736
RELAPSED	Springgreen_UP	SH3BGR	204979_s_at	5663	0.6242	-0.1142	No	204979_s_at	1.0822

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
RELAPSED	Springgreen_UP	ABTB2	213497_at	5688	0.6153	-0.1145	No	213497_at	0.6583
RELAPSED	Springgreen_UP	CRIP2	208978_at	5757	0.5835	-0.1183	No	208978_at	0.9262
RELAPSED	Springgreen_UP	ZHX3	212545_s_at	5788	0.5710	-0.1191	No	217367_s_at	0.7944
RELAPSED	Springgreen_UP	TMEM187	204340_at	5791	0.5705	-0.1178	No	204340_at	0.6830
RELAPSED	Springgreen_UP	DLEU1	205677_s_at	6210	0.4165	-0.1493	No	205677_s_at	1.0707
RELAPSED	Springgreen_UP	JUP	201015_s_at	6257	0.3968	-0.1519	No	201015_s_at	0.7828
RELAPSED	Springgreen_UP	MYO15A	220288_at	6351	0.3621	-0.1582	No	220288_at	0.7058
RELAPSED	Springgreen_UP	ASAP3	222236_s_at	6387	0.3492	-0.1601	No	222236_s_at	0.7455
RELAPSED	Springgreen_UP	IFIT3	204747_at	6629	0.2575	-0.1782	No	204747_at	0.6673
RELAPSED	Springgreen_UP	HEY1	44783_s_at	6734	0.2119	-0.1857	No	44783_s_at	3.2756
RELAPSED	Springgreen_UP	FXYD1	205384_at	6772	0.1943	-0.1881	No	205384_at	0.4831
RELAPSED	Springgreen_UP	SRGAP2	213329_at	6845	0.1625	-0.1933	No	213329_at	0.4920
RELAPSED	Springgreen_UP	HSPB1	201841_s_at	6907	0.1334	-0.1977	No	201841_s_at	0.5158
RELAPSED	Springgreen_UP	SGK269	220008_at	7008	0.1015	-0.2053	No	225913_at	1.0102
RELAPSED	Springgreen_UP	WNT11	206737_at	7106	0.0641	-0.2127	No	206737_at	1.1543
RELAPSED	Springgreen_UP	ASMTL	209394_at	7116	0.0612	-0.2132	No	36553_at	1.1999
RELAPSED	Springgreen_UP	SLC12A6	220740_s_at	7249	0.0092	-0.2235	No	226741_at	0.6098
RELAPSED	Springgreen_UP	TESK2	205486_at	7390	-0.0412	-0.2343	No	205486_at	0.9948
RELAPSED	Springgreen_UP	CCL5	204655_at	7469	-0.0758	-0.2402	No	1555759_a_at	2.7666
RELAPSED	Springgreen_UP	CHMP7	212313_at	7519	-0.0909	-0.2438	No	212313_at	0.4507
RELAPSED	Springgreen_UP	TLE2	40837_at	7589	-0.1223	-0.2488	No	40837_at	1.4735
RELAPSED	Springgreen_UP	KPTN	220160_s_at	7596	-0.1270	-0.2490	No	220160_s_at	0.4342
RELAPSED	Springgreen_UP	CYTH3	206523_at	7634	-0.1413	-0.2515	No	225147_at	0.6052
RELAPSED	Springgreen_UP	TUFT1	205807_s_at	7640	-0.1423	-0.2515	No	205807_s_at	0.7280
RELAPSED	Springgreen_UP	S100A10	200872_at	7761	-0.1959	-0.2604	No	200872_at	0.7729
RELAPSED	Springgreen_UP	ENTPD2	207372_s_at	7766	-0.1969	-0.2602	No	230430_at	0.5358
RELAPSED	Springgreen_UP	SLC4A8	207056_s_at	7823	-0.2212	-0.2640	No	1554113_a_at	0.4990
RELAPSED	Springgreen_UP	SAP30L	219129_s_at	7947	-0.2680	-0.2729	No	225509_at	1.4699
RELAPSED	Springgreen_UP	EPB41L5	220977_x_at	8148	-0.3494	-0.2875	No	225855_at	1.1081
RELAPSED	Springgreen_UP	CLIP2	211031_s_at	8172	-0.3585	-0.2884	No	211031_s_at	1.4226
RELAPSED	Springgreen_UP	BTG2	201236_s_at	8203	-0.3758	-0.2898	No	201236_s_at	1.0197
RELAPSED	Springgreen_UP	ARHGAP17	218076_s_at	8227	-0.3866	-0.2906	No	218076_s_at	0.9554
RELAPSED	Springgreen_UP	RALGPS1	204199_at	8282	-0.4087	-0.2938	No	204199_at	1.8935
RELAPSED	Springgreen_UP	MLL	212078_s_at	8461	-0.4903	-0.3064	No	226981_at	0.6683
RELAPSED	Springgreen_UP	VWA5A	205011_at	8463	-0.4909	-0.3052	No	205011_at	0.6620
RELAPSED	Springgreen_UP	GNAZ	204993_at	8585	-0.5440	-0.3132	No	204993_at	0.7498
RELAPSED	Springgreen_UP	MAPT	203928_x_at	8610	-0.5529	-0.3137	No	203929_s_at	1.2389
RELAPSED	Springgreen_UP	LPXN	216250_s_at	8691	-0.5925	-0.3184	No	216250_s_at	0.8789
RELAPSED	Springgreen_UP	HEXIM1	202814_s_at	8731	-0.6055	-0.3199	No	202814_s_at	1.5943
RELAPSED	Springgreen_UP	PAIP2B	221868_at	8917	-0.7006	-0.3325	No	221868_at	1.2146
RELAPSED	Springgreen_UP	MT2A	212185_x_at	8928	-0.7051	-0.3315	No	212185_x_at	1.1216
RELAPSED	Springgreen_UP	FLJ22184	220584_at	8965	-0.7268	-0.3324	No	220584_at	0.7091
RELAPSED	Springgreen_UP	TTL7	219882_at	8991	-0.7390	-0.3325	No	219882_at	1.3565
RELAPSED	Springgreen_UP	KHDRBS3	209781_s_at	9050	-0.7675	-0.3350	No	209781_s_at	0.5985
RELAPSED	Springgreen_UP	TEAD3	209454_s_at	9135	-0.8118	-0.3395	No	209454_s_at	0.9877
RELAPSED	Springgreen_UP	CAPG	201850_at	9246	-0.8583	-0.3459	No	201850_at	0.4065
RELAPSED	Springgreen_UP	TLE1	203221_at	9275	-0.8734	-0.3458	No	203221_at	0.6591
RELAPSED	Springgreen_UP	PLAC8	219014_at	9376	-0.9252	-0.3512	No	219014_at	1.1130
RELAPSED	Springgreen_UP	PHC1	218338_at	9435	-0.9527	-0.3533	No	218338_at	0.6767
RELAPSED	Springgreen_UP	ANXA5	200782_at	9440	-0.9539	-0.3512	No	200782_at	0.8349
RELAPSED	Springgreen_UP	FZD4	218665_at	9455	-0.9608	-0.3498	No	218665_at	0.5746
RELAPSED	Springgreen_UP	SLC35A2	209326_at	9481	-0.9785	-0.3493	No	209326_at	0.4515
RELAPSED	Springgreen_UP	GPS2	209350_s_at	9496	-0.9860	-0.3478	No	209350_s_at	0.8650
RELAPSED	Springgreen_UP	GPC1	202756_s_at	9617	-1.0443	-0.3545	No	202756_s_at	0.2626
RELAPSED	Springgreen_UP	RABGAP1L	203020_at	9681	-1.0785	-0.3566	No	213982_s_at	1.9919
RELAPSED	Springgreen_UP	UBTD1	219172_at	9758	-1.1155	-0.3597	No	219172_at	0.5312
RELAPSED	Springgreen_UP	ROGDI	218394_at	9791	-1.1321	-0.3593	No	218394_at	0.7896
RELAPSED	Springgreen_UP	AP1G1	203350_at	9982	-1.2364	-0.3709	No	225771_at	0.8554
RELAPSED	Springgreen_UP	FKBP1B	209931_s_at	10044	-1.2746	-0.3724	No	206857_s_at	1.7204
RELAPSED	Springgreen_UP	OPTN	202074_s_at	10099	-1.3131	-0.3733	Yes	202074_s_at	0.8466
RELAPSED	Springgreen_UP	TNNT1	213201_s_at	10103	-1.3161	-0.3701	Yes	213201_s_at	1.9121
RELAPSED	Springgreen_UP	HIP1	205426_s_at	10104	-1.3171	-0.3668	Yes	226364_at	0.9342
RELAPSED	Springgreen_UP	ANKRD11	219437_s_at	10177	-1.3626	-0.3689	Yes	226012_at	0.4516
RELAPSED	Springgreen_UP	NEAT1	214657_s_at	10186	-1.3765	-0.3660	Yes	224566_at	0.7719
RELAPSED	Springgreen_UP	CAPN5	205166_at	10231	-1.3980	-0.3658	Yes	226292_at	0.7814
RELAPSED	Springgreen_UP	FNDC3B	218618_s_at	10256	-1.4135	-0.3641	Yes	218618_s_at	0.9300
RELAPSED	Springgreen_UP	EFR3B	215328_at	10263	-1.4177	-0.3609	Yes	227283_at	1.1424
RELAPSED	Springgreen_UP	PGCP	208454_s_at	10285	-1.4311	-0.3589	Yes	208454_s_at	0.8846

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RELAPSED	Springgreen_UP	NCOA3	209062_x_at	10349	-1.4707	-0.3600	Yes	209061_at	0.7598
RELAPSED	Springgreen_UP	DOK4	209690_s_at	10354	-1.4735	-0.3566	Yes	209691_s_at	0.4003
RELAPSED	Springgreen_UP	SRR	219205_at	10428	-1.5340	-0.3583	Yes	219205_at	0.6989
RELAPSED	Springgreen_UP	SNN	218032_at	10433	-1.5390	-0.3547	Yes	218032_at	1.1523
RELAPSED	Springgreen_UP	FADS3	204257_at	10481	-1.5741	-0.3543	Yes	204257_at	0.6793
RELAPSED	Springgreen_UP	CA2	209301_at	10491	-1.5810	-0.3510	Yes	209301_at	2.3006
RELAPSED	Springgreen_UP	TGFBR2	208944_at	10556	-1.6278	-0.3518	Yes	208944_at	1.7261
RELAPSED	Springgreen_UP	STAT4	206118_at	10597	-1.6561	-0.3506	Yes	206118_at	0.7244
RELAPSED	Springgreen_UP	GSTA4	202967_at	10615	-1.6714	-0.3477	Yes	202967_at	1.1781
RELAPSED	Springgreen_UP	TBXAS1	208130_s_at	10641	-1.6905	-0.3453	Yes	208130_s_at	0.9837
RELAPSED	Springgreen_UP	GSN	214040_s_at	10665	-1.7092	-0.3427	Yes	200696_s_at	1.5769
RELAPSED	Springgreen_UP	GAB2	203853_s_at	10666	-1.7095	-0.3383	Yes	203853_s_at	0.6217
RELAPSED	Springgreen_UP	AHNAK	211986_at	10979	-1.9396	-0.3577	Yes	211986_at	3.0382
RELAPSED	Springgreen_UP	CTSK	202450_s_at	10987	-1.9430	-0.3533	Yes	202450_s_at	0.7887
RELAPSED	Springgreen_UP	TIAM1	213135_at	11036	-1.9838	-0.3519	Yes	213135_at	1.2715
RELAPSED	Springgreen_UP	CST3	201360_at	11088	-2.0383	-0.3507	Yes	201360_at	1.7967
RELAPSED	Springgreen_UP	SMARCD3	204099_at	11100	-2.0485	-0.3463	Yes	204099_at	1.7452
RELAPSED	Springgreen_UP	ELF4	203490_at	11236	-2.1635	-0.3512	Yes	203490_at	0.1915
RELAPSED	Springgreen_UP	LRCH4	221956_at	11267	-2.1919	-0.3480	Yes	90610_at	0.6937
RELAPSED	Springgreen_UP	ASAP1	221039_s_at	11277	-2.1982	-0.3430	Yes	224796_at	0.6173
RELAPSED	Springgreen_UP	ENTPD1	209473_at	11303	-2.2221	-0.3393	Yes	209473_at	0.2403
RELAPSED	Springgreen_UP	KIF13B	202962_at	11305	-2.2258	-0.3337	Yes	202962_at	0.1920
RELAPSED	Springgreen_UP	ADAM28	208269_s_at	11380	-2.2913	-0.3336	Yes	205997_at	1.6045
RELAPSED	Springgreen_UP	CHN1	212624_s_at	11450	-2.3482	-0.3329	Yes	212624_s_at	0.7418
RELAPSED	Springgreen_UP	UBR5	208884_s_at	11466	-2.3591	-0.3280	Yes	208884_s_at	1.5132
RELAPSED	Springgreen_UP	FAM164A	205308_at	11472	-2.3603	-0.3224	Yes	205308_at	0.8831
RELAPSED	Springgreen_UP	LIMA1	217892_s_at	11542	-2.4479	-0.3215	Yes	217892_s_at	0.8689
RELAPSED	Springgreen_UP	SYNE2	202761_s_at	11546	-2.4495	-0.3155	Yes	202761_s_at	0.8638
RELAPSED	Springgreen_UP	HIF1AN	218525_s_at	11671	-2.6105	-0.3184	Yes	226648_at	0.6976
RELAPSED	Springgreen_UP	LPGAT1	202651_at	11696	-2.6357	-0.3135	Yes	227476_at	0.4155
RELAPSED	Springgreen_UP	KIF1B	209234_at	11834	-2.8046	-0.3170	Yes	209234_at	0.4223
RELAPSED	Springgreen_UP	KCNH2	210036_s_at	11911	-2.9102	-0.3155	Yes	210036_s_at	0.4936
RELAPSED	Springgreen_UP	PDE4DIP	212390_at	11972	-2.9934	-0.3125	Yes	214129_at	0.1865
RELAPSED	Springgreen_UP	CYTH1	202879_s_at	12059	-3.1078	-0.3112	Yes	202880_s_at	0.4208
RELAPSED	Springgreen_UP	ProSAPI1	204447_at	12090	-3.1518	-0.3055	Yes	204447_at	0.7388
RELAPSED	Springgreen_UP	PIM1	209193_at	12207	-3.3449	-0.3060	Yes	209193_at	0.4581
RELAPSED	Springgreen_UP	SLC37A1	218928_s_at	12295	-3.5334	-0.3037	Yes	218928_s_at	1.5958
RELAPSED	Springgreen_UP	ZFP36	201531_at	12354	-3.6517	-0.2989	Yes	201531_at	1.1739
RELAPSED	Springgreen_UP	LGALS3	208949_s_at	12364	-3.6742	-0.2902	Yes	208949_s_at	0.9798
RELAPSED	Springgreen_UP	VCL	200931_s_at	12372	-3.6975	-0.2812	Yes	200931_s_at	1.5632
RELAPSED	Springgreen_UP	DNMBP	212838_at	12399	-3.7695	-0.2736	Yes	212838_at	0.3275
RELAPSED	Springgreen_UP	TGFBR3	204731_at	12428	-3.8434	-0.2659	Yes	226625_at	1.2976
RELAPSED	Springgreen_UP	MPP1	202974_at	12433	-3.8620	-0.2563	Yes	202974_at	0.6470
RELAPSED	Springgreen_UP	GLS	203159_at	12447	-3.9122	-0.2473	Yes	203159_at	0.7744
RELAPSED	Springgreen_UP	CCDC92	218175_at	12448	-3.9211	-0.2373	Yes	218175_at	1.1364
RELAPSED	Springgreen_UP	TANK	207616_s_at	12452	-3.9379	-0.2274	Yes	207616_s_at	1.2193
RELAPSED	Springgreen_UP	PHLPP2	213407_at	12462	-3.9574	-0.2180	Yes	213407_at	0.6092
RELAPSED	Springgreen_UP	ALDH2	201425_at	12499	-4.0734	-0.2104	Yes	201425_at	0.6952
RELAPSED	Springgreen_UP	Hs.533878	218363_at	12507	-4.0850	-0.2004	Yes	229131_at	0.4206
RELAPSED	Springgreen_UP	ZCCHC24	212419_at	12520	-4.1481	-0.1907	Yes	212419_at	1.1963
RELAPSED	Springgreen_UP	JUN	201464_x_at	12543	-4.2133	-0.1817	Yes	201464_x_at	0.9285
RELAPSED	Springgreen_UP	C17orf91	214696_at	12553	-4.2619	-0.1714	Yes	214696_at	0.9025
RELAPSED	Springgreen_UP	PILRA	222218_s_at	12589	-4.4255	-0.1628	Yes	222218_s_at	1.2450
RELAPSED	Springgreen_UP	KIAA0513	204546_at	12594	-4.4434	-0.1518	Yes	204546_at	0.9209
RELAPSED	Springgreen_UP	PDGFC	218718_at	12613	-4.5492	-0.1415	Yes	218718_at	1.7530
RELAPSED	Springgreen_UP	C11orf80	204922_at	12627	-4.6254	-0.1307	Yes	204922_at	0.3391
RELAPSED	Springgreen_UP	FLJ10357	220326_s_at	12638	-4.6824	-0.1194	Yes	220326_s_at	0.8886
RELAPSED	Springgreen_UP	FOXO1	202723_s_at	12641	-4.7069	-0.1075	Yes	202723_s_at	1.5149
RELAPSED	Springgreen_UP	CYP26A1	206424_at	12651	-4.7627	-0.0960	Yes	206424_at	0.6489
RELAPSED	Springgreen_UP	RRAS	212647_at	12662	-4.8203	-0.0845	Yes	212647_at	1.0321
RELAPSED	Springgreen_UP	TUBA1A	209118_s_at	12683	-4.9175	-0.0734	Yes	209118_s_at	1.5498
RELAPSED	Springgreen_UP	FUCA1	202838_at	12688	-4.9333	-0.0611	Yes	202838_at	0.4742
RELAPSED	Springgreen_UP	HLA-DMB	203932_at	12710	-5.0756	-0.0497	Yes	203932_at	1.1066
RELAPSED	Springgreen_UP	BLVRA	211729_x_at	12714	-5.1240	-0.0368	Yes	211729_x_at	0.5834
RELAPSED	Springgreen_UP	SGK3	220038_at	12733	-5.1788	-0.0250	Yes	227627_at	1.5170
RELAPSED	Springgreen_UP	IGFBP6	203851_at	12791	-5.4977	-0.0153	Yes	203851_at	0.5314
RELAPSED	Springgreen_UP	SGPP1	221268_s_at	12793	-5.5009	-0.0013	Yes	223391_at	1.1439
RELAPSED	Springgreen_UP	NAGK	218231_at	12960	-7.6576	0.0054	Yes	218231_at	0.4800

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
NEW	Blue_DOWN	DDRGK1	218159_at	60	7.0617	0.0329	Yes	218159_at	-1.0618
NEW	Blue_DOWN	TRIP13	204033_at	418	4.6569	0.0301	Yes	204033_at	-2.5425
NEW	Blue_DOWN	LDHA	200650_s_at	444	4.6189	0.0528	Yes	200650_s_at	-1.2640
NEW	Blue_DOWN	FDPS	201275_at	474	4.5521	0.0747	Yes	201275_at	-1.4558
NEW	Blue_DOWN	GPI	208308_s_at	561	4.3179	0.0911	Yes	208308_s_at	-1.7204
NEW	Blue_DOWN	RRM2	209773_s_at	778	3.8907	0.0951	Yes	209773_s_at	-3.3973
NEW	Blue_DOWN	NDUFA9	208969_at	800	3.8600	0.1140	Yes	208969_at	-1.0903
NEW	Blue_DOWN	WDR76	205519_at	840	3.8031	0.1312	Yes	205519_at	-1.4439
NEW	Blue_DOWN	RAD51	205024_s_at	846	3.7872	0.1510	Yes	205024_s_at	-1.5192
NEW	Blue_DOWN	KIF22	202183_s_at	870	3.7649	0.1692	Yes	202183_s_at	-1.6422
NEW	Blue_DOWN	NSDHL	209279_s_at	881	3.7487	0.1884	Yes	209279_s_at	-1.3381
NEW	Blue_DOWN	MCM10	220651_s_at	1097	3.4730	0.1903	Yes	220651_s_at	-2.7011
NEW	Blue_DOWN	CCNB2	202705_at	1175	3.3574	0.2022	Yes	202705_at	-2.1340
NEW	Blue_DOWN	TMEM48	218073_s_at	1367	3.1147	0.2040	Yes	234672_s_at	-1.4764
NEW	Blue_DOWN	PGAM1	200886_s_at	1438	3.0369	0.2147	Yes	200886_s_at	-1.2903
NEW	Blue_DOWN	MKI67	212021_s_at	1607	2.8679	0.2170	Yes	212021_s_at	-1.8786
NEW	Blue_DOWN	CIT	212801_at	1747	2.7377	0.2208	Yes	212801_at	-1.0713
NEW	Blue_DOWN	NCAPD3	212789_at	1818	2.6711	0.2297	Yes	212789_at	-1.4511
NEW	Blue_DOWN	C1orf112	220840_s_at	1863	2.6300	0.2402	Yes	220840_s_at	-1.6023
NEW	Blue_DOWN	CDC20	202870_s_at	1888	2.6106	0.2523	Yes	202870_s_at	-1.5564
NEW	Blue_DOWN	RFC2	203696_s_at	1895	2.6071	0.2657	Yes	203696_s_at	-1.5179
NEW	Blue_DOWN	CENPA	210821_x_at	1907	2.5995	0.2787	Yes	204962_s_at	-1.8881
NEW	Blue_DOWN	HJURP	218726_at	2008	2.5256	0.2844	Yes	218726_at	-1.9264
NEW	Blue_DOWN	C16orf59	219556_at	2147	2.4217	0.2866	Yes	219556_at	-1.0807
NEW	Blue_DOWN	TUBA1C	209251_x_at	2173	2.4023	0.2974	Yes	209251_x_at	-1.1616
NEW	Blue_DOWN	STK6	208080_at	2291	2.3201	0.3007	Yes	208079_s_at	-1.8883
NEW	Blue_DOWN	UBE2C	202954_at	2316	2.3049	0.3112	Yes	202954_at	-1.4051
NEW	Blue_DOWN	MYBL2	201710_at	2464	2.2024	0.3115	Yes	201710_at	-2.6352
NEW	Blue_DOWN	MCM2	202107_s_at	2512	2.1665	0.3194	Yes	202107_s_at	-2.0679
NEW	Blue_DOWN	TIMELESS	203046_s_at	2581	2.1203	0.3254	Yes	203046_s_at	-1.1575
NEW	Blue_DOWN	TACC3	218308_at	2755	2.0095	0.3228	Yes	218308_at	-1.3035
NEW	Blue_DOWN	SLC7A5	201195_s_at	2920	1.9163	0.3203	Yes	201195_s_at	-2.6903
NEW	Blue_DOWN	EBP	213787_s_at	2923	1.9143	0.3303	Yes	213787_s_at	-1.7595
NEW	Blue_DOWN	TOR3A	218459_at	3091	1.8197	0.3271	Yes	218459_at	-1.3546
NEW	Blue_DOWN	TUBA1B	211058_x_at	3214	1.7570	0.3270	Yes	211058_x_at	-1.1876
NEW	Blue_DOWN	ESPL1	38158_at	3242	1.7425	0.3342	Yes	38158_at	-1.8588
NEW	Blue_DOWN	H2AFX	205436_s_at	3319	1.6928	0.3374	Yes	205436_s_at	-1.4748
NEW	Blue_DOWN	CDC25A	204696_s_at	3380	1.6638	0.3416	Yes	204695_at	-2.3587
NEW	Blue_DOWN	RAD54L	204558_at	3645	1.5240	0.3293	Yes	204558_at	-1.6082
NEW	Blue_DOWN	FANCG	203564_at	3764	1.4669	0.3280	Yes	203564_at	-1.1180
NEW	Blue_DOWN	LDLR	217173_s_at	3802	1.4474	0.3328	Yes	202068_s_at	-3.1745
NEW	Blue_DOWN	B4GALNT1	206435_at	3804	1.4467	0.3404	Yes	206435_at	-1.0926
NEW	Blue_DOWN	SLC35B1	202433_at	3850	1.4218	0.3445	Yes	202433_at	-0.8310
NEW	Blue_DOWN	SLC2A1	201250_s_at	3892	1.3987	0.3488	Yes	201250_s_at	-1.9684
NEW	Blue_DOWN	CDCA3	221436_s_at	4037	1.3413	0.3448	No	223307_at	-1.9094
NEW	Blue_DOWN	CHAF1B	204775_at	4233	1.2399	0.3363	No	204775_at	-1.3219
NEW	Blue_DOWN	SLCO4A1	219911_s_at	4362	1.1772	0.3327	No	219911_s_at	-2.0069
NEW	Blue_DOWN	SLC7A1	212295_s_at	4461	1.1379	0.3312	No	212295_s_at	-1.0932
NEW	Blue_DOWN	SPAG5	203145_at	4479	1.1295	0.3359	No	203145_at	-2.3469
NEW	Blue_DOWN	MCM5	201755_at	4987	0.8968	0.3015	No	216237_s_at	-2.2926
NEW	Blue_DOWN	BLM	205733_at	5081	0.8498	0.2989	No	205733_at	-1.5970
NEW	Blue_DOWN	CDC6	203968_s_at	5118	0.8371	0.3005	No	203968_s_at	-2.5641
NEW	Blue_DOWN	CDC45L	204126_s_at	5777	0.5589	0.2527	No	204126_s_at	-2.4023
NEW	Blue_DOWN	MPDU1	209208_at	5956	0.4745	0.2415	No	209208_at	-1.7427
NEW	Blue_DOWN	ATAD2	218782_s_at	5986	0.4630	0.2417	No	218782_s_at	-2.5687
NEW	Blue_DOWN	RBM14	204178_s_at	6427	0.2696	0.2091	No	204178_s_at	-1.6436
NEW	Blue_DOWN	KIF2C	209408_at	7380	-0.1523	0.1364	No	209408_at	-2.0440
NEW	Blue_DOWN	SUV39H1	218619_s_at	7666	-0.2815	0.1159	No	218619_s_at	-1.1582
NEW	Blue_DOWN	TXNDC15	220495_s_at	7799	-0.3388	0.1075	No	220495_s_at	-1.5473
NEW	Blue_DOWN	POLA2	204441_s_at	7825	-0.3523	0.1075	No	204441_s_at	-1.5960
NEW	Blue_DOWN	TFRC	207332_s_at	8579	-0.7016	0.0531	No	207332_s_at	-1.6352
NEW	Blue_DOWN	ELOVL1	218028_at	8851	-0.8448	0.0366	No	57163_at	-1.0254
NEW	Blue_DOWN	E2F2	207042_at	8890	-0.8603	0.0383	No	228361_at	-2.5642
NEW	Blue_DOWN	MCM4	214349_at	8983	-0.9263	0.0361	No	212141_at	-2.3064
NEW	Blue_DOWN	PLK1	202240_at	8991	-0.9312	0.0405	No	202240_at	-1.9567
NEW	Blue_DOWN	DBF4B	206661_at	9091	-0.9935	0.0381	No	238508_at	-1.7101
NEW	Blue_DOWN	TEX261	212083_at	10137	-1.5860	-0.0341	No	212083_at	-0.9444
NEW	Blue_DOWN	NCAPH	212949_at	10285	-1.6792	-0.0365	No	212949_at	-2.1530

Supplementary Table 1E

GSEA enriched module gene sets (FDR q<0.1)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
NEW	Blue_DOWN	LMAN2L	221274_s_at	10838	-2.1060	-0.0680	No	221274_s_at	-0.9061
NEW	Blue_DOWN	LMNB1	203276_at	10846	-2.1124	-0.0573	No	203276_at	-1.5790
NEW	Blue_DOWN	SLC19A1	209777_s_at	11362	-2.5716	-0.0834	No	209777_s_at	-1.4453
NEW	Blue_DOWN	CDC25C	216914_at	11583	-2.7933	-0.0855	No	205167_s_at	-1.7970
NEW	Blue_DOWN	TPST2	204079_at	11601	-2.8097	-0.0719	No	204079_at	-0.5365
NEW	Blue_DOWN	GALE	202528_at	11654	-2.8780	-0.0606	No	202528_at	-1.0641
NEW	Blue_DOWN	AMDHD2	219082_at	11694	-2.9167	-0.0481	No	219082_at	-0.8216
NEW	Blue_DOWN	SCARB1	201819_at	12109	-3.5427	-0.0612	No	1552256_a_at	-2.4284
NEW	Blue_DOWN	FOXM1	214148_at	12120	-3.5585	-0.0430	No	202580_x_at	-2.2845
NEW	Blue_DOWN	ZNF107	205739_x_at	12343	-4.0355	-0.0387	No	243312_at	-0.9633
NEW	Blue_DOWN	CENPM	218741_at	12654	-5.1977	-0.0350	No	218741_at	-2.1860
NEW	Blue_DOWN	SCD	200831_s_at	12762	-5.8302	-0.0123	No	200832_s_at	-2.0573
NEW	Blue_DOWN	DBNDD2	218094_s_at	12808	-6.1672	0.0171	No	238470_at	-0.4043
NEW	Blue_UP	SATB1	203408_s_at	6308	0.3203	-0.4790	No	203408_s_at	2.2924
NEW	Blue_UP	CAMSAP1L1	212763_at	7625	-0.2600	-0.5756	No	212765_at	0.8007
NEW	Blue_UP	PHC3	215521_at	10808	-2.0786	-0.7837	No	226508_at	1.3199
NEW	Blue_UP	CALCOCO1	209002_s_at	11016	-2.2524	-0.7602	No	209002_s_at	1.3443
NEW	Blue_UP	HLA-DRB4	209728_at	12160	-3.6379	-0.7844	Yes	209728_at	3.1361
NEW	Blue_UP	HLA-DRB6	217362_x_at	12595	-4.9319	-0.7315	Yes	217362_x_at	1.3574
NEW	Blue_UP	LOC731682	212671_s_at	12681	-5.3108	-0.6452	Yes	212671_s_at	2.2805
NEW	Blue_UP	HLA-DQB1	211654_x_at	12742	-5.7261	-0.5497	Yes	211654_x_at	1.3513
NEW	Blue_UP	HLA-DMA	217478_s_at	12780	-5.9251	-0.4490	Yes	217478_s_at	1.4991
NEW	Blue_UP	SPARCL1	200795_at	12806	-6.1241	-0.3438	Yes	200795_at	1.1056
NEW	Blue_UP	HLA-DRB1	204670_x_at	12841	-6.4598	-0.2335	Yes	208306_x_at	1.2895
NEW	Blue_UP	HLA-DPB1	201137_s_at	12876	-6.9175	-0.1152	Yes	201137_s_at	1.5092
NEW	Blue_UP	LOC100294276	209312_x_at	12907	-7.2584	0.0094	Yes	209312_x_at	1.3887
NEW	Darkgreen_DOWN	SET	200630_x_at	73	6.8048	0.0156	Yes	200630_x_at	-0.6487
NEW	Darkgreen_DOWN	PA2G4	208676_s_at	168	5.7800	0.0263	Yes	208676_s_at	-0.8555
NEW	Darkgreen_DOWN	STOML2	215416_s_at	193	5.5504	0.0417	Yes	215416_s_at	-1.2177
NEW	Darkgreen_DOWN	PPP2R4	208874_x_at	225	5.3549	0.0560	Yes	206452_x_at	-1.1045
NEW	Darkgreen_DOWN	ANP32B	201306_s_at	253	5.2044	0.0702	Yes	201306_s_at	-1.2696
NEW	Darkgreen_DOWN	ZNF696	220967_s_at	272	5.1345	0.0848	Yes	220967_s_at	-0.5543
NEW	Darkgreen_DOWN	TXNRD2	211177_s_at	358	4.8363	0.0933	Yes	211177_s_at	-0.9959
NEW	Darkgreen_DOWN	SMARCA4	212520_s_at	462	4.5723	0.0996	Yes	213720_s_at	-0.8869
NEW	Darkgreen_DOWN	HNRNPL	35201_at	488	4.5057	0.1117	Yes	35201_at	-0.6733
NEW	Darkgreen_DOWN	H3F3A	213828_x_at	508	4.4565	0.1241	Yes	213828_x_at	-0.5502
NEW	Darkgreen_DOWN	TUBB	211714_x_at	523	4.4324	0.1368	Yes	211714_x_at	-1.5976
NEW	Darkgreen_DOWN	ECH1	200789_at	536	4.3905	0.1496	Yes	200789_at	-0.9580
NEW	Darkgreen_DOWN	PSMD8	200820_at	587	4.2646	0.1590	Yes	200820_at	-1.0159
NEW	Darkgreen_DOWN	AVEN	219366_at	598	4.2430	0.1715	Yes	219366_at	-1.1898
NEW	Darkgreen_DOWN	FARSA	216602_s_at	623	4.2006	0.1827	Yes	202159_at	-0.5879
NEW	Darkgreen_DOWN	HAUS7	213334_x_at	654	4.1386	0.1933	Yes	213334_x_at	-1.1222
NEW	Darkgreen_DOWN	OBFC2B	218903_s_at	688	4.0740	0.2034	Yes	218903_s_at	-1.0793
NEW	Darkgreen_DOWN	FAM20B	202915_s_at	720	4.0070	0.2135	Yes	202916_s_at	-0.8598
NEW	Darkgreen_DOWN	ALDOA	214687_x_at	777	3.8924	0.2213	Yes	200966_x_at	-1.5531
NEW	Darkgreen_DOWN	SLC10A3	204928_s_at	849	3.7826	0.2276	Yes	204928_s_at	-0.8831
NEW	Darkgreen_DOWN	WBSCR16	221247_s_at	855	3.7780	0.2390	Yes	221247_s_at	-1.3786
NEW	Darkgreen_DOWN	HNRNPAB	201277_s_at	895	3.7280	0.2476	Yes	201277_s_at	-0.9573
NEW	Darkgreen_DOWN	UBL4A	221746_at	906	3.7120	0.2584	Yes	221746_at	-0.8816
NEW	Darkgreen_DOWN	IARS	204744_s_at	924	3.6858	0.2686	Yes	204744_s_at	-0.6682
NEW	Darkgreen_DOWN	CTPS	202613_at	928	3.6745	0.2798	Yes	202613_at	-1.3500
NEW	Darkgreen_DOWN	EXOSC2	214507_s_at	965	3.6259	0.2883	Yes	209527_at	-0.8969
NEW	Darkgreen_DOWN	UTP20	209725_at	967	3.6217	0.2996	Yes	209725_at	-1.0034
NEW	Darkgreen_DOWN	SNRPA	201770_at	1020	3.5511	0.3066	Yes	201770_at	-1.0990
NEW	Darkgreen_DOWN	MEPCE	219798_s_at	1022	3.5491	0.3176	Yes	219798_s_at	-0.5653
NEW	Darkgreen_DOWN	TTLL12	216251_s_at	1093	3.4744	0.3230	Yes	1552257_a_at	-0.8222
NEW	Darkgreen_DOWN	RCC1	215747_s_at	1130	3.4198	0.3309	Yes	206499_s_at	-1.2427
NEW	Darkgreen_DOWN	TMEM231	219182_at	1142	3.4037	0.3406	Yes	219182_at	-0.8038
NEW	Darkgreen_DOWN	HCFC1	202474_s_at	1174	3.3588	0.3487	Yes	202474_s_at	-0.8665
NEW	Darkgreen_DOWN	KEAP1	202417_at	1192	3.3498	0.3578	Yes	202417_at	-1.0833
NEW	Darkgreen_DOWN	SSRP1	200957_s_at	1211	3.3133	0.3668	Yes	200957_s_at	-1.0802
NEW	Darkgreen_DOWN	NR2F6	209262_s_at	1255	3.2620	0.3736	Yes	209262_s_at	-0.6575
NEW	Darkgreen_DOWN	NDUFS3	201740_at	1309	3.1981	0.3795	Yes	201740_at	-0.7718
NEW	Darkgreen_DOWN	LASS2	222212_s_at	1324	3.1681	0.3883	Yes	222212_s_at	-0.8812
NEW	Darkgreen_DOWN	NOLC1	211951_at	1338	3.1457	0.3971	Yes	211951_at	-0.6006
NEW	Darkgreen_DOWN	LAS1L	208117_s_at	1408	3.0672	0.4013	Yes	208117_s_at	-0.6863
NEW	Darkgreen_DOWN	HDGF	200896_x_at	1412	3.0663	0.4106	Yes	200896_x_at	-1.6718
NEW	Darkgreen_DOWN	PARP1	208644_at	1562	2.9092	0.4081	Yes	208644_at	-0.7776

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

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NEW	Darkgreen_DOWN	CASP2	209812_x_at	1571	2.9033	0.4166	Yes	226032_at	-0.3234
NEW	Darkgreen_DOWN	ACP6	218795_at	1605	2.8691	0.4230	Yes	218795_at	-0.7372
NEW	Darkgreen_DOWN	DDX54	219111_s_at	1665	2.8149	0.4272	Yes	219111_s_at	-1.0228
NEW	Darkgreen_DOWN	WDR4	221632_s_at	1686	2.7894	0.4343	Yes	241937_s_at	-0.9790
NEW	Darkgreen_DOWN	GYS1	201673_s_at	1736	2.7498	0.4391	Yes	201673_s_at	-1.0184
NEW	Darkgreen_DOWN	MRPS15	221437_s_at	1767	2.7189	0.4452	Yes	226296_s_at	-1.1799
NEW	Darkgreen_DOWN	HSPD1	200807_s_at	1908	2.5987	0.4425	Yes	200807_s_at	-0.7713
NEW	Darkgreen_DOWN	AIFM1	205512_s_at	1942	2.5722	0.4479	Yes	205512_s_at	-1.1566
NEW	Darkgreen_DOWN	LMNB2	216952_s_at	1947	2.5667	0.4556	Yes	216952_s_at	-0.5609
NEW	Darkgreen_DOWN	ODC1	200790_at	2189	2.3893	0.4444	No	200790_at	-1.2573
NEW	Darkgreen_DOWN	HMGA1	206074_s_at	2272	2.3369	0.4453	No	206074_s_at	-0.8315
NEW	Darkgreen_DOWN	GCAT	36475_at	2476	2.1927	0.4364	No	205164_at	-0.8760
NEW	Darkgreen_DOWN	LDLRAP1	57082_at	2484	2.1859	0.4427	No	57082_at	-0.9713
NEW	Darkgreen_DOWN	DHODH	213632_at	2681	2.0640	0.4339	No	213632_at	-1.0196
NEW	Darkgreen_DOWN	ACO2	200793_s_at	2861	1.9503	0.4261	No	200793_s_at	-0.9497
NEW	Darkgreen_DOWN	SPHK2	209857_s_at	2929	1.9104	0.4268	No	40273_at	-0.8702
NEW	Darkgreen_DOWN	MFNG	204153_s_at	3077	1.8250	0.4211	No	204153_s_at	-1.2757
NEW	Darkgreen_DOWN	C2orf18	219783_at	3192	1.7637	0.4178	No	225695_at	-0.9088
NEW	Darkgreen_DOWN	TSR1	218155_x_at	3256	1.7303	0.4183	No	218156_s_at	-1.4890
NEW	Darkgreen_DOWN	NASP	201970_s_at	3356	1.6767	0.4158	No	201970_s_at	-1.1638
NEW	Darkgreen_DOWN	TUBGCP4	211337_s_at	3593	1.5511	0.4024	No	211337_s_at	-0.7043
NEW	Darkgreen_DOWN	TMPO	203432_at	3678	1.5030	0.4005	No	209753_s_at	-1.5300
NEW	Darkgreen_DOWN	GTF2H3	222104_x_at	3681	1.5009	0.4051	No	1554599_x_at	-0.6423
NEW	Darkgreen_DOWN	CWF19L1	218787_x_at	3687	1.4969	0.4093	No	233568_x_at	-0.5411
NEW	Darkgreen_DOWN	ADA	204639_at	3791	1.4536	0.4059	No	204639_at	-1.2155
NEW	Darkgreen_DOWN	MBTPS2	206473_at	3867	1.4141	0.4045	No	226760_at	-1.0883
NEW	Darkgreen_DOWN	PAK2	208877_at	3879	1.4079	0.4080	No	208877_at	-0.6734
NEW	Darkgreen_DOWN	NTRK2	207152_at	3884	1.4047	0.4121	No	221795_at	-1.3961
NEW	Darkgreen_DOWN	DNASE1L1	203912_s_at	4012	1.3533	0.4064	No	203912_s_at	-1.0443
NEW	Darkgreen_DOWN	TH1L	220607_x_at	4089	1.3141	0.4046	No	225006_x_at	-0.7325
NEW	Darkgreen_DOWN	TOE1	204080_at	4187	1.2643	0.4011	No	204080_at	-1.0473
NEW	Darkgreen_DOWN	SNRNP25	218493_at	4262	1.2197	0.3991	No	218493_at	-1.6572
NEW	Darkgreen_DOWN	DUSP7	213848_at	4366	1.1759	0.3948	No	213848_at	-0.6568
NEW	Darkgreen_DOWN	TRMT2B	205238_at	4402	1.1623	0.3957	No	205238_at	-1.5340
NEW	Darkgreen_DOWN	FASTKD2	216996_s_at	4441	1.1493	0.3963	No	216996_s_at	-0.7328
NEW	Darkgreen_DOWN	ALDH18A1	217791_s_at	4448	1.1436	0.3994	No	217791_s_at	-0.8960
NEW	Darkgreen_DOWN	TRIM25	206911_at	4695	1.0293	0.3836	No	224806_at	-0.6249
NEW	Darkgreen_DOWN	NVL	207877_s_at	4940	0.9183	0.3675	No	207877_s_at	-0.6853
NEW	Darkgreen_DOWN	C20orf7	219524_s_at	5268	0.7731	0.3445	No	227160_s_at	-0.7371
NEW	Darkgreen_DOWN	AHSA1	201491_at	5595	0.6273	0.3212	No	201491_at	-0.9841
NEW	Darkgreen_DOWN	TRIB2	202479_s_at	5670	0.5971	0.3173	No	202478_at	-0.7855
NEW	Darkgreen_DOWN	OXCT1	202780_at	5713	0.5808	0.3159	No	202780_at	-1.1391
NEW	Darkgreen_DOWN	FKBP4	200895_s_at	5759	0.5627	0.3141	No	200895_s_at	-1.1436
NEW	Darkgreen_DOWN	GPATCH1	219818_s_at	5805	0.5475	0.3123	No	219818_s_at	-0.6849
NEW	Darkgreen_DOWN	HK2	202934_at	5868	0.5166	0.3091	No	202934_at	-1.3557
NEW	Darkgreen_DOWN	TSHR	215443_at	5907	0.4979	0.3077	No	215443_at	-1.4748
NEW	Darkgreen_DOWN	UROD	208971_at	5977	0.4661	0.3038	No	208970_s_at	-0.6909
NEW	Darkgreen_DOWN	STAG3L4	218994_s_at	6038	0.4383	0.3005	No	222801_s_at	-0.8323
NEW	Darkgreen_DOWN	GMIP	218913_s_at	6039	0.4379	0.3019	No	218913_s_at	-0.6103
NEW	Darkgreen_DOWN	HMG2	208668_x_at	6695	0.1603	0.2516	No	208668_x_at	-1.0775
NEW	Darkgreen_DOWN	PPPDE2	212527_at	6747	0.1359	0.2481	No	212527_at	-0.8438
NEW	Darkgreen_DOWN	ADAM22	208227_x_at	6839	0.0974	0.2413	No	208227_x_at	-0.9814
NEW	Darkgreen_DOWN	FAM57A	218898_at	6883	0.0760	0.2382	No	218898_at	-1.7645
NEW	Darkgreen_DOWN	SUPT16H	217815_at	6941	0.0604	0.2340	No	217815_at	-0.5370
NEW	Darkgreen_DOWN	ACACA	212186_at	6964	0.0508	0.2324	No	212186_at	-0.8638
NEW	Darkgreen_DOWN	CCDC22	214037_s_at	7026	0.0155	0.2277	No	206016_at	-0.8115
NEW	Darkgreen_DOWN	MED12	211342_x_at	7047	0.0073	0.2262	No	216071_x_at	-0.6591
NEW	Darkgreen_DOWN	MIPEP	204305_at	7083	-0.0113	0.2235	No	204305_at	-0.8696
NEW	Darkgreen_DOWN	THOC5	209418_s_at	7314	-0.1261	0.2061	No	209418_s_at	-0.7584
NEW	Darkgreen_DOWN	SMARCB1	212167_s_at	7325	-0.1313	0.2057	No	212167_s_at	-1.0464
NEW	Darkgreen_DOWN	SFMBT1	213370_s_at	7422	-0.1712	0.1988	No	213370_s_at	-0.6881
NEW	Darkgreen_DOWN	COIL	203654_s_at	7448	-0.1820	0.1974	No	203654_s_at	-0.6094
NEW	Darkgreen_DOWN	MED25	208110_x_at	7700	-0.2969	0.1789	No	1553993_s_at	-0.6889
NEW	Darkgreen_DOWN	SF3B3	200687_s_at	7702	-0.2973	0.1797	No	200687_s_at	-0.7666
NEW	Darkgreen_DOWN	PRR3	204795_at	7983	-0.4157	0.1593	No	204795_at	-0.7039
NEW	Darkgreen_DOWN	BID	211725_s_at	8137	-0.4888	0.1489	No	211725_s_at	-1.3437
NEW	Darkgreen_DOWN	WDR77	201420_s_at	8143	-0.4920	0.1501	No	201421_s_at	-0.5241
NEW	Darkgreen_DOWN	EXOG	205521_at	8196	-0.5172	0.1476	No	205521_at	-1.0107

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
NEW	Darkgreen_DOWN	NF2	218915_at	8239	-0.5373	0.1461	No	218915_at	-0.8814
NEW	Darkgreen_DOWN	IVD	203682_s_at	8241	-0.5374	0.1477	No	225311_at	-0.5473
NEW	Darkgreen_DOWN	MAPKAPK5	212871_at	8557	-0.6918	0.1254	No	212871_at	-1.1799
NEW	Darkgreen_DOWN	P2RX5	210448_s_at	8573	-0.6984	0.1264	No	210448_s_at	-1.2148
NEW	Darkgreen_DOWN	DFFB	206752_s_at	8577	-0.6999	0.1283	No	206752_s_at	-0.6100
NEW	Darkgreen_DOWN	AGAP1	204066_s_at	8726	-0.7734	0.1193	No	204066_s_at	-1.1009
NEW	Darkgreen_DOWN	LOC389906	59433_at	9327	-1.1240	0.0762	No	1556102_x_at	-0.4763
NEW	Darkgreen_DOWN	GEMIN4	217099_s_at	9507	-1.2214	0.0661	No	217099_s_at	-1.0276
NEW	Darkgreen_DOWN	NOL12	219324_at	9527	-1.2307	0.0685	No	219324_at	-1.3931
NEW	Darkgreen_DOWN	INPP5A	203006_at	9533	-1.2322	0.0719	No	203006_at	-0.7522
NEW	Darkgreen_DOWN	CHD1L	212539_at	9603	-1.2772	0.0706	No	212539_at	-0.8681
NEW	Darkgreen_DOWN	JMJD4	218560_s_at	9621	-1.2852	0.0733	No	218560_s_at	-0.9034
NEW	Darkgreen_DOWN	LARS2	204016_at	9853	-1.4071	0.0597	No	204016_at	-0.7286
NEW	Darkgreen_DOWN	H2AFY	207168_s_at	10230	-1.6424	0.0357	No	207168_s_at	-0.6011
NEW	Darkgreen_DOWN	NT5DC2	218051_s_at	10419	-1.7702	0.0266	No	218051_s_at	-1.2878
NEW	Darkgreen_DOWN	HNRNPA3P1	206809_s_at	10436	-1.7842	0.0309	No	206809_s_at	-1.2047
NEW	Darkgreen_DOWN	MGLL	211026_s_at	10467	-1.8153	0.0343	No	211026_s_at	-1.2329
NEW	Darkgreen_DOWN	FAM118A	219629_at	10527	-1.8526	0.0355	No	226475_at	-0.4186
NEW	Darkgreen_DOWN	DCPS	218774_at	10681	-1.9749	0.0297	No	218774_at	-1.3790
NEW	Darkgreen_DOWN	LIG3	207348_s_at	10804	-2.0709	0.0267	No	204123_at	-1.5025
NEW	Darkgreen_DOWN	IKBKE	204549_at	10990	-2.2250	0.0193	No	204549_at	-0.7580
NEW	Darkgreen_DOWN	USP13	205356_at	11036	-2.2676	0.0229	No	205356_at	-0.8452
NEW	Darkgreen_DOWN	SCMH1	221216_s_at	11060	-2.2920	0.0283	No	221216_s_at	-0.6497
NEW	Darkgreen_DOWN	MPHOSPH6	203740_at	11174	-2.3921	0.0270	No	203740_at	-1.0146
NEW	Darkgreen_DOWN	CEP192	218827_s_at	11200	-2.4153	0.0326	No	218827_s_at	-0.5851
NEW	Darkgreen_DOWN	DNMT3A	218457_s_at	11348	-2.5552	0.0291	No	222640_at	-0.8989
NEW	Darkgreen_DOWN	MGC72080	217499_x_at	11594	-2.8050	0.0189	No	217499_x_at	-1.7349
NEW	Darkgreen_DOWN	BTN3A2	209846_s_at	11628	-2.8399	0.0251	No	209846_s_at	-0.4424
NEW	Darkgreen_DOWN	MGC5566	220449_at	11829	-3.1093	0.0193	No	220449_at	-0.8044
NEW	Darkgreen_DOWN	DOCK2	213160_at	11933	-3.2697	0.0215	No	213160_at	-0.9284
NEW	Darkgreen_DOWN	ABL1	202123_s_at	12170	-3.6675	0.0147	No	202123_s_at	-0.6077
NEW	Darkgreen_DOWN	CORO1B	64486_at	12416	-4.2553	0.0089	No	64486_at	-0.5557
NEW	Darkgreen_DOWN	SHMT1	209980_s_at	12669	-5.2600	0.0058	No	224954_at	-0.7602
NEW	Darkgreen_DOWN	CIDEB	221188_s_at	12895	-7.0827	0.0104	No	221188_s_at	-0.7572
NEW	Red_DOWN	B3GAT3	203452_at	89	6.4989	0.0594	Yes	203452_at	-0.6670
NEW	Red_DOWN	SSR2	200652_at	142	6.0288	0.1168	Yes	200652_at	-0.4014
NEW	Red_DOWN	CD320	218529_at	160	5.8218	0.1748	Yes	218529_at	-1.4256
NEW	Red_DOWN	SCAMP3	201771_at	203	5.4776	0.2274	Yes	201771_at	-0.8416
NEW	Red_DOWN	HIST1H2AJ	208583_x_at	244	5.2394	0.2777	Yes	208583_x_at	-0.7033
NEW	Red_DOWN	TMED1	203679_at	494	4.4784	0.3042	Yes	203679_at	-1.1221
NEW	Red_DOWN	SMPD1	209420_s_at	666	4.1113	0.3329	Yes	209420_s_at	-0.7122
NEW	Red_DOWN	CLN6	218161_s_at	787	3.8809	0.3633	Yes	1567080_s_at	-1.0284
NEW	Red_DOWN	SCAMP2	218143_s_at	845	3.7938	0.3975	Yes	218143_s_at	-0.9440
NEW	Red_DOWN	DHCR7	201790_s_at	1224	3.3025	0.4021	Yes	201791_s_at	-1.5161
NEW	Red_DOWN	PTTG1	203554_x_at	1399	3.0719	0.4200	Yes	203554_x_at	-0.8401
NEW	Red_DOWN	TMED3	208837_at	1508	2.9593	0.4418	Yes	208837_at	-0.8660
NEW	Red_DOWN	CORO1A	209083_at	2121	2.4432	0.4196	Yes	209083_at	-1.5068
NEW	Red_DOWN	HMB5	203040_s_at	2150	2.4205	0.4421	Yes	203040_s_at	-0.5190
NEW	Red_DOWN	INHBE	210587_at	2312	2.3070	0.4533	Yes	210587_at	-3.5505
NEW	Red_DOWN	TMEM109	201361_at	2409	2.2408	0.4687	Yes	201361_at	-0.6692
NEW	Red_DOWN	ATP6V0B	200078_s_at	2485	2.1849	0.4852	Yes	200078_s_at	-0.8093
NEW	Red_DOWN	VAV1	206219_s_at	3313	1.6979	0.4388	No	206219_s_at	-0.8382
NEW	Red_DOWN	SLC37A4	202830_s_at	3427	1.6406	0.4468	No	202830_s_at	-0.7995
NEW	Red_DOWN	TROAP	204649_at	3800	1.4479	0.4330	No	1568596_a_at	-1.0917
NEW	Red_DOWN	TNFRSF13B	207641_at	4627	1.0607	0.3802	No	207641_at	-0.9554
NEW	Red_DOWN	CD79B	205297_s_at	4787	0.9873	0.3780	No	205297_s_at	-1.1874
NEW	Red_DOWN	ABHD11	221927_s_at	4998	0.8890	0.3709	No	221927_s_at	-0.5400
NEW	Red_DOWN	KIFC1	209680_s_at	6230	0.3508	0.2797	No	209680_s_at	-1.0635
NEW	Red_DOWN	SLC7A11	207528_s_at	6285	0.3277	0.2789	No	209921_at	-2.0492
NEW	Red_DOWN	UPP1	203234_at	6353	0.3003	0.2768	No	203234_at	-0.7584
NEW	Red_DOWN	ATP6V0C	36994_at	6694	0.1610	0.2523	No	36994_at	-0.7413
NEW	Red_DOWN	SREBF1	202308_at	6783	0.1242	0.2468	No	202308_at	-1.5501
NEW	Red_DOWN	C20orf3	206656_s_at	6994	0.0316	0.2309	No	206656_s_at	-0.4617
NEW	Red_DOWN	DHRS7B	220690_s_at	7731	-0.3097	0.1774	No	220690_s_at	-1.1801
NEW	Red_DOWN	PAQR4	212858_at	8879	-0.8566	0.0978	No	212858_at	-0.5606
NEW	Red_DOWN	P2RX4	204088_at	9199	-1.0585	0.0841	No	204088_at	-1.0043
NEW	Red_DOWN	INSIG1	201627_s_at	9230	-1.0771	0.0927	No	201625_s_at	-2.5371
NEW	Red_DOWN	B3GNT1	203188_at	9734	-1.3487	0.0678	No	203188_at	-0.4636

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NEW	Red_DOWN	NEU1	208926_at	10605	-1.9098	0.0202	No	208926_at	-1.4294
NEW	Red_DOWN	GLT25D1	218473_s_at	10949	-2.1997	0.0163	No	218473_s_at	-0.8308
NEW	Red_DOWN	IL21R	221658_s_at	11496	-2.7075	0.0018	No	221658_s_at	-0.9819
NEW	Red_DOWN	SCNN1B	205464_at	11557	-2.7714	0.0254	No	205464_at	-1.6399
NEW	Red_DOWN	DIAPH1	215541_s_at	12313	-3.9735	0.0078	No	209190_s_at	-0.6448
NEW	Red_DOWN	NIN1	203045_at	12524	-4.6341	0.0389	No	203045_at	-0.5586
NEW	Springgreen_UP	SND1	201622_at	204	5.4676	-0.0026	No	201622_at	0.3683
NEW	Springgreen_UP	PEX16	49878_at	268	5.1434	0.0050	No	49878_at	0.3663
NEW	Springgreen_UP	BCAS4	220588_at	273	5.1320	0.0171	No	228787_s_at	0.6012
NEW	Springgreen_UP	NCAM1	212843_at	357	4.8373	0.0224	No	227394_at	2.6276
NEW	Springgreen_UP	GPRC5D	221297_at	419	4.6568	0.0290	No	221297_at	1.4466
NEW	Springgreen_UP	EEF1A2	204540_at	468	4.5652	0.0363	No	204540_at	1.2188
NEW	Springgreen_UP	NBEA	221207_s_at	731	3.9950	0.0256	No	226439_s_at	0.7562
NEW	Springgreen_UP	HRASLS2	216760_at	738	3.9793	0.0348	No	221122_at	2.3804
NEW	Springgreen_UP	FBXL2	214436_at	999	3.5805	0.0233	No	214436_at	0.9636
NEW	Springgreen_UP	ARHGEF9	203263_s_at	1068	3.4972	0.0265	No	203264_s_at	1.1637
NEW	Springgreen_UP	CYP26B1	219825_at	1133	3.4148	0.0298	No	219825_at	1.8184
NEW	Springgreen_UP	TDRD7	213361_at	1144	3.4024	0.0373	No	213361_at	1.7645
NEW	Springgreen_UP	PTPRD	205712_at	1155	3.3901	0.0447	No	214043_at	1.3101
NEW	Springgreen_UP	H1FX	204805_s_at	1353	3.1281	0.0370	No	204805_s_at	1.6177
NEW	Springgreen_UP	SERPINE1	202627_s_at	1541	2.9299	0.0295	No	202627_s_at	0.7062
NEW	Springgreen_UP	EXOC6B	215417_at	1746	2.7386	0.0203	No	225900_at	1.4931
NEW	Springgreen_UP	SERPINI1	205352_at	1763	2.7229	0.0256	No	205352_at	1.2988
NEW	Springgreen_UP	SATB2	213435_at	1802	2.6849	0.0292	No	213435_at	1.0194
NEW	Springgreen_UP	IL12A	207160_at	1915	2.5959	0.0268	No	207160_at	0.7546
NEW	Springgreen_UP	ARHGAP26	205068_s_at	1945	2.5693	0.0308	No	205068_s_at	0.3358
NEW	Springgreen_UP	RPH3A	205230_at	1968	2.5534	0.0353	No	205230_at	0.2624
NEW	Springgreen_UP	CHST11	219634_at	2087	2.4667	0.0321	No	226372_at	0.7049
NEW	Springgreen_UP	DNM1	217341_at	2099	2.4581	0.0372	No	215116_s_at	0.9290
NEW	Springgreen_UP	SORDL	217995_at	2148	2.4210	0.0393	No	217995_at	0.3155
NEW	Springgreen_UP	LHPP	215061_at	2317	2.3045	0.0318	No	218523_at	0.8186
NEW	Springgreen_UP	CYP2R1	207786_at	2344	2.2846	0.0353	No	227109_at	0.5272
NEW	Springgreen_UP	PPAP2A	209147_s_at	2590	2.1178	0.0214	No	209147_s_at	0.9661
NEW	Springgreen_UP	SILV	209848_s_at	2663	2.0728	0.0208	No	209848_s_at	1.4400
NEW	Springgreen_UP	C7orf58	220032_at	3122	1.8071	-0.0105	No	228728_at	1.2195
NEW	Springgreen_UP	PIK3CD	211230_s_at	3148	1.7914	-0.0081	No	203879_at	1.0301
NEW	Springgreen_UP	ASPHD1	214993_at	3203	1.7594	-0.0080	No	1553997_a_at	0.5512
NEW	Springgreen_UP	MARCH2	210075_at	3323	1.6915	-0.0132	No	210075_at	0.7438
NEW	Springgreen_UP	TMCC2	213096_at	3350	1.6798	-0.0111	No	213096_at	0.8882
NEW	Springgreen_UP	HHLA3	220387_s_at	3442	1.6280	-0.0143	No	234665_x_at	0.8157
NEW	Springgreen_UP	MYH11	201497_x_at	3479	1.6081	-0.0132	No	201497_x_at	1.2708
NEW	Springgreen_UP	PRAME	204086_at	3518	1.5913	-0.0122	No	204086_at	1.2914
NEW	Springgreen_UP	MYH15	215331_at	3547	1.5742	-0.0106	No	215331_at	0.7231
NEW	Springgreen_UP	SAP30L	219129_s_at	3821	1.4404	-0.0284	No	225509_at	1.4699
NEW	Springgreen_UP	RASAL2	219026_s_at	3988	1.3621	-0.0380	No	222810_s_at	1.6667
NEW	Springgreen_UP	RIMS3	210991_s_at	4067	1.3261	-0.0409	No	204730_at	0.4244
NEW	Springgreen_UP	CBLN1	205747_at	4086	1.3162	-0.0391	No	205747_at	0.4504
NEW	Springgreen_UP	TUFT1	205807_s_at	4318	1.1935	-0.0542	No	205807_s_at	0.7280
NEW	Springgreen_UP	RASA2	206636_at	4324	1.1910	-0.0517	No	230669_at	0.9736
NEW	Springgreen_UP	CHMP7	212313_at	4340	1.1864	-0.0500	No	212313_at	0.4507
NEW	Springgreen_UP	LOC730227	215756_at	4463	1.1377	-0.0567	No	215756_at	0.6852
NEW	Springgreen_UP	ASMTL	209394_at	4522	1.1118	-0.0585	No	36553_at	1.1999
NEW	Springgreen_UP	TMEM187	204340_at	4568	1.0942	-0.0594	No	204340_at	0.6830
NEW	Springgreen_UP	HEY1	44783_s_at	4570	1.0933	-0.0568	No	44783_s_at	3.2756
NEW	Springgreen_UP	KIAA0319	206017_at	4678	1.0369	-0.0626	No	206017_at	0.6121
NEW	Springgreen_UP	BTG1	200920_s_at	4753	1.0018	-0.0659	No	200920_s_at	1.3862
NEW	Springgreen_UP	JUP	201015_s_at	4770	0.9961	-0.0648	No	201015_s_at	0.7828
NEW	Springgreen_UP	KLHL25	210307_s_at	4811	0.9777	-0.0655	No	210307_s_at	0.3425
NEW	Springgreen_UP	ERC1	215606_s_at	4832	0.9700	-0.0647	No	226049_at	0.9883
NEW	Springgreen_UP	ENTPD2	207372_s_at	4883	0.9407	-0.0663	No	230430_at	0.5358
NEW	Springgreen_UP	UPK1A	214624_at	4915	0.9266	-0.0665	No	214624_at	1.1307
NEW	Springgreen_UP	FXYP1	205384_at	4983	0.9005	-0.0695	No	205384_at	0.4831
NEW	Springgreen_UP	SH3BGR	204979_s_at	4993	0.8922	-0.0680	No	204979_s_at	1.0822
NEW	Springgreen_UP	IL15	205992_s_at	5005	0.8857	-0.0668	No	205992_s_at	2.3102
NEW	Springgreen_UP	DLEU1	205677_s_at	5090	0.8458	-0.0712	No	205677_s_at	1.0707
NEW	Springgreen_UP	IFIT3	204747_at	5265	0.7749	-0.0829	No	204747_at	0.6673
NEW	Springgreen_UP	S100A10	200872_at	5274	0.7694	-0.0817	No	200872_at	0.7729
NEW	Springgreen_UP	CAV1	203065_s_at	5347	0.7354	-0.0855	No	203065_s_at	1.6979

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
NEW	Springgreen_UP	HSPB1	201841_s_at	5394	0.7127	-0.0873	No	201841_s_at	0.5158
NEW	Springgreen_UP	RALGPS1	204199_at	5456	0.6856	-0.0904	No	204199_at	1.8935
NEW	Springgreen_UP	ABTB2	213497_at	5752	0.5642	-0.1121	No	213497_at	0.6583
NEW	Springgreen_UP	CYTH3	206523_at	5980	0.4645	-0.1286	No	225147_at	0.6052
NEW	Springgreen_UP	NR4A3	209959_at	6288	0.3273	-0.1517	No	209959_at	0.3849
NEW	Springgreen_UP	AP3M2	203410_at	6429	0.2673	-0.1620	No	203410_at	0.8868
NEW	Springgreen_UP	PLA2G12A	221027_s_at	6506	0.2373	-0.1674	No	242323_at	0.9317
NEW	Springgreen_UP	ANXA5	200782_at	6544	0.2225	-0.1697	No	200782_at	0.8349
NEW	Springgreen_UP	ASAP3	222236_s_at	6548	0.2197	-0.1694	No	222236_s_at	0.7455
NEW	Springgreen_UP	OBSL1	214928_at	6584	0.2079	-0.1716	No	213946_s_at	1.2912
NEW	Springgreen_UP	ZHX3	212545_s_at	6658	0.1794	-0.1769	No	217367_s_at	0.7944
NEW	Springgreen_UP	TESK2	205486_at	6752	0.1336	-0.1838	No	205486_at	0.9948
NEW	Springgreen_UP	TTLL7	219882_at	6764	0.1320	-0.1843	No	219882_at	1.3565
NEW	Springgreen_UP	MLL	212078_s_at	6838	0.0976	-0.1898	No	226981_at	0.6683
NEW	Springgreen_UP	SRGAP2	213329_at	6842	0.0952	-0.1898	No	213329_at	0.4920
NEW	Springgreen_UP	GPS2	209350_s_at	6914	0.0667	-0.1952	No	209350_s_at	0.8650
NEW	Springgreen_UP	CHST7	206756_at	6988	0.0355	-0.2008	No	206756_at	0.7672
NEW	Springgreen_UP	FSD1	219170_at	7009	0.0229	-0.2023	No	219170_at	0.4872
NEW	Springgreen_UP	SYT11	209197_at	7035	0.0123	-0.2042	No	209197_at	1.3400
NEW	Springgreen_UP	SLC35A2	209326_at	7165	-0.0448	-0.2141	No	209326_at	0.4515
NEW	Springgreen_UP	SRGN	201858_s_at	7220	-0.0710	-0.2182	No	201858_s_at	0.4139
NEW	Springgreen_UP	PBX1	212151_at	7326	-0.1321	-0.2260	No	212151_at	1.2989
NEW	Springgreen_UP	KPTN	220160_s_at	7342	-0.1402	-0.2269	No	220160_s_at	0.4342
NEW	Springgreen_UP	RABGAP1L	203020_at	7403	-0.1616	-0.2311	No	213982_s_at	1.9919
NEW	Springgreen_UP	CRIP2	208978_at	7467	-0.1909	-0.2356	No	208978_at	0.9262
NEW	Springgreen_UP	WNT11	206737_at	7489	-0.2040	-0.2367	No	206737_at	1.1543
NEW	Springgreen_UP	TLE1	203221_at	7544	-0.2264	-0.2404	No	203221_at	0.6591
NEW	Springgreen_UP	MYO15A	220288_at	7632	-0.2687	-0.2465	No	220288_at	0.7058
NEW	Springgreen_UP	TBXAS1	208130_s_at	7817	-0.3500	-0.2600	No	208130_s_at	0.9837
NEW	Springgreen_UP	PAIP2B	221868_at	7854	-0.3628	-0.2619	No	221868_at	1.2146
NEW	Springgreen_UP	HBE1	205919_at	7871	-0.3712	-0.2623	No	205919_at	2.2651
NEW	Springgreen_UP	MICAL2	212472_at	7907	-0.3875	-0.2640	No	212473_s_at	0.6345
NEW	Springgreen_UP	BTG2	201236_s_at	8081	-0.4620	-0.2764	No	201236_s_at	1.0197
NEW	Springgreen_UP	VWA5A	205011_at	8159	-0.4991	-0.2812	No	205011_at	0.6620
NEW	Springgreen_UP	CCL5	204655_at	8180	-0.5083	-0.2815	No	1555759_a_at	2.7666
NEW	Springgreen_UP	GNAZ	204993_at	8279	-0.5560	-0.2878	No	204993_at	0.7498
NEW	Springgreen_UP	OPTN	202074_s_at	8423	-0.6288	-0.2974	No	202074_s_at	0.8466
NEW	Springgreen_UP	SLC4A8	207056_s_at	8428	-0.6320	-0.2962	No	1554113_a_at	0.4990
NEW	Springgreen_UP	PGCP	208454_s_at	8509	-0.6685	-0.3008	No	208454_s_at	0.8846
NEW	Springgreen_UP	CLIP2	211031_s_at	8576	-0.6993	-0.3043	No	211031_s_at	1.4226
NEW	Springgreen_UP	TLE2	40837_at	8695	-0.7611	-0.3116	No	40837_at	1.4735
NEW	Springgreen_UP	GAB2	203853_s_at	8758	-0.7957	-0.3145	No	203853_s_at	0.6217
NEW	Springgreen_UP	SNN	218032_at	8770	-0.8018	-0.3134	No	218032_at	1.1523
NEW	Springgreen_UP	HBG2	204419_x_at	8900	-0.8671	-0.3214	No	213515_x_at	1.0411
NEW	Springgreen_UP	CAPG	201850_at	8919	-0.8768	-0.3206	No	201850_at	0.4065
NEW	Springgreen_UP	FLJ22184	220584_at	8930	-0.8843	-0.3193	No	220584_at	0.7091
NEW	Springgreen_UP	GPC1	202756_s_at	9012	-0.9423	-0.3233	No	202756_s_at	0.2626
NEW	Springgreen_UP	LPXN	216250_s_at	9027	-0.9509	-0.3221	No	216250_s_at	0.8789
NEW	Springgreen_UP	FAM164A	205308_at	9072	-0.9793	-0.3231	No	205308_at	0.8831
NEW	Springgreen_UP	HEXIM1	202814_s_at	9075	-0.9800	-0.3209	No	202814_s_at	1.5943
NEW	Springgreen_UP	TEAD3	209454_s_at	9120	-1.0100	-0.3219	No	209454_s_at	0.9877
NEW	Springgreen_UP	LRCH4	221956_at	9196	-1.0557	-0.3251	No	90610_at	0.6937
NEW	Springgreen_UP	UBTD1	219172_at	9261	-1.0914	-0.3275	No	219172_at	0.5312
NEW	Springgreen_UP	SLC12A6	220740_s_at	9289	-1.1077	-0.3269	No	226741_at	0.6098
NEW	Springgreen_UP	FZD4	218665_at	9402	-1.1668	-0.3328	No	218665_at	0.5746
NEW	Springgreen_UP	ANKRD11	219437_s_at	9425	-1.1794	-0.3316	No	226012_at	0.4516
NEW	Springgreen_UP	DOK4	209690_s_at	9448	-1.1915	-0.3304	No	209691_s_at	0.4003
NEW	Springgreen_UP	AHNAK	211986_at	9480	-1.2084	-0.3299	No	211986_at	3.0382
NEW	Springgreen_UP	NCOA3	209062_x_at	9520	-1.2275	-0.3300	No	209061_at	0.7598
NEW	Springgreen_UP	ARHGAP17	218076_s_at	9538	-1.2339	-0.3283	No	218076_s_at	0.9554
NEW	Springgreen_UP	FADS3	204257_at	9561	-1.2511	-0.3270	No	204257_at	0.6793
NEW	Springgreen_UP	MT2A	212185_x_at	9612	-1.2809	-0.3278	No	212185_x_at	1.1216
NEW	Springgreen_UP	EFR3B	215328_at	9655	-1.3089	-0.3279	No	227283_at	1.1424
NEW	Springgreen_UP	FNDC3B	218618_s_at	9665	-1.3134	-0.3254	No	218618_s_at	0.9300
NEW	Springgreen_UP	ENTPD1	209473_at	9704	-1.3315	-0.3251	No	209473_at	0.2403
NEW	Springgreen_UP	FKBP1B	209931_s_at	9709	-1.3331	-0.3222	No	206857_s_at	1.7204
NEW	Springgreen_UP	CAPN5	205166_at	9855	-1.4082	-0.3300	No	226292_at	0.7814
NEW	Springgreen_UP	NEAT1	214657_s_at	9896	-1.4346	-0.3297	No	224566_at	0.7719

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
NEW	Springgreen_UP	ADAM28	208269_s_at	9903	-1.4383	-0.3267	No	205997_at	1.6045
NEW	Springgreen_UP	GSN	214040_s_at	10054	-1.5340	-0.3346	No	200696_s_at	1.5769
NEW	Springgreen_UP	EPB41L5	220977_x_at	10058	-1.5361	-0.3311	No	225855_at	1.1081
NEW	Springgreen_UP	PLAC8	219014_at	10185	-1.6136	-0.3370	No	219014_at	1.1130
NEW	Springgreen_UP	ROGDI	218394_at	10199	-1.6221	-0.3341	No	218394_at	0.7896
NEW	Springgreen_UP	MAPT	203928_x_at	10220	-1.6328	-0.3317	No	203929_s_at	1.2389
NEW	Springgreen_UP	TIAM1	213135_at	10324	-1.7061	-0.3356	No	213135_at	1.2715
NEW	Springgreen_UP	SRR	219205_at	10365	-1.7278	-0.3345	No	219205_at	0.6989
NEW	Springgreen_UP	SYNE2	202761_s_at	10488	-1.8265	-0.3395	No	202761_s_at	0.8638
NEW	Springgreen_UP	GSTA4	202967_at	10552	-1.8698	-0.3399	No	202967_at	1.1781
NEW	Springgreen_UP	STAT4	206118_at	10826	-2.0939	-0.3561	Yes	206118_at	0.7244
NEW	Springgreen_UP	PIM1	209193_at	10861	-2.1270	-0.3536	Yes	209193_at	0.4581
NEW	Springgreen_UP	CHN1	212624_s_at	10869	-2.1344	-0.3489	Yes	212624_s_at	0.7418
NEW	Springgreen_UP	SMARCD3	204099_at	10870	-2.1349	-0.3438	Yes	204099_at	1.7452
NEW	Springgreen_UP	TNNT1	213201_s_at	11022	-2.2565	-0.3500	Yes	213201_s_at	1.9121
NEW	Springgreen_UP	PHC1	218338_at	11044	-2.2759	-0.3461	Yes	218338_at	0.6767
NEW	Springgreen_UP	TGFBR2	208944_at	11062	-2.2937	-0.3419	Yes	208944_at	1.7261
NEW	Springgreen_UP	AP1G1	203350_at	11187	-2.4041	-0.3457	Yes	225771_at	0.8554
NEW	Springgreen_UP	KIF13B	202962_at	11227	-2.4435	-0.3428	Yes	202962_at	0.1920
NEW	Springgreen_UP	ASAP1	221039_s_at	11239	-2.4477	-0.3377	Yes	224796_at	0.6173
NEW	Springgreen_UP	SGK269	220008_at	11278	-2.4878	-0.3346	Yes	225913_at	1.0102
NEW	Springgreen_UP	KHDRBS3	209781_s_at	11386	-2.6000	-0.3367	Yes	209781_s_at	0.5985
NEW	Springgreen_UP	PDE4DIP	212390_at	11396	-2.6100	-0.3310	Yes	214129_at	0.1865
NEW	Springgreen_UP	LPGAT1	202651_at	11472	-2.6866	-0.3303	Yes	227476_at	0.4155
NEW	Springgreen_UP	HIF1AN	218525_s_at	11511	-2.7267	-0.3267	Yes	226648_at	0.6976
NEW	Springgreen_UP	CST3	201360_at	11528	-2.7407	-0.3213	Yes	201360_at	1.7967
NEW	Springgreen_UP	ZFP36	201531_at	11578	-2.7873	-0.3183	Yes	201531_at	1.1739
NEW	Springgreen_UP	CCDC92	218175_at	11603	-2.8117	-0.3133	Yes	218175_at	1.1364
NEW	Springgreen_UP	TANK	207616_s_at	11612	-2.8202	-0.3071	Yes	207616_s_at	1.2193
NEW	Springgreen_UP	ELF4	203490_at	11673	-2.8995	-0.3047	Yes	203490_at	0.1915
NEW	Springgreen_UP	CA2	209301_at	11763	-3.0227	-0.3043	Yes	209301_at	2.3006
NEW	Springgreen_UP	CYTH1	202879_s_at	11795	-3.0664	-0.2993	Yes	202880_s_at	0.4208
NEW	Springgreen_UP	SLC37A1	218928_s_at	11811	-3.0853	-0.2930	Yes	218928_s_at	1.5958
NEW	Springgreen_UP	ALDH2	201425_at	11827	-3.1072	-0.2866	Yes	201425_at	0.6952
NEW	Springgreen_UP	UBR5	208884_s_at	11849	-3.1303	-0.2806	Yes	208884_s_at	1.5132
NEW	Springgreen_UP	KCNH2	210036_s_at	11869	-3.1636	-0.2744	Yes	210036_s_at	0.4936
NEW	Springgreen_UP	CTSK	202450_s_at	11899	-3.2104	-0.2689	Yes	202450_s_at	0.7887
NEW	Springgreen_UP	KIF1B	209234_at	11931	-3.2684	-0.2634	Yes	209234_at	0.4223
NEW	Springgreen_UP	GLS	203159_at	11995	-3.3740	-0.2601	Yes	203159_at	0.7744
NEW	Springgreen_UP	LIMA1	217892_s_at	12042	-3.4391	-0.2553	Yes	217892_s_at	0.8689
NEW	Springgreen_UP	ProSAPiP1	204447_at	12050	-3.4449	-0.2475	Yes	204447_at	0.7388
NEW	Springgreen_UP	FOXO1	202723_s_at	12052	-3.4461	-0.2392	Yes	202723_s_at	1.5149
NEW	Springgreen_UP	LGALS3	208949_s_at	12162	-3.6437	-0.2388	Yes	208949_s_at	0.9798
NEW	Springgreen_UP	JUN	201464_x_at	12180	-3.6830	-0.2312	Yes	201464_x_at	0.9285
NEW	Springgreen_UP	C11orf80	204922_at	12231	-3.7747	-0.2259	Yes	204922_at	0.3391
NEW	Springgreen_UP	KIAA0513	204546_at	12289	-3.9079	-0.2209	Yes	204546_at	0.9209
NEW	Springgreen_UP	RRAS	212647_at	12300	-3.9350	-0.2121	Yes	212647_at	1.0321
NEW	Springgreen_UP	BLVRA	211729_x_at	12342	-4.0352	-0.2055	Yes	211729_x_at	0.5834
NEW	Springgreen_UP	HIP1	205426_s_at	12361	-4.0838	-0.1969	Yes	226364_at	0.9342
NEW	Springgreen_UP	DNMBP	212838_at	12377	-4.1303	-0.1881	Yes	212838_at	0.3275
NEW	Springgreen_UP	VCL	200931_s_at	12404	-4.2174	-0.1799	Yes	200931_s_at	1.5632
NEW	Springgreen_UP	FUCA1	202838_at	12506	-4.5862	-0.1766	Yes	202838_at	0.4742
NEW	Springgreen_UP	TGFBR3	204731_at	12533	-4.6900	-0.1672	Yes	226625_at	1.2976
NEW	Springgreen_UP	C17orf91	214696_at	12534	-4.6908	-0.1558	Yes	214696_at	0.9025
NEW	Springgreen_UP	HLA-DMB	203932_at	12536	-4.6958	-0.1445	Yes	203932_at	1.1066
NEW	Springgreen_UP	PHLPP2	213407_at	12573	-4.8635	-0.1355	Yes	213407_at	0.6092
NEW	Springgreen_UP	Hs.533878	218363_at	12588	-4.9085	-0.1246	Yes	229131_at	0.4206
NEW	Springgreen_UP	TUBA1A	209118_s_at	12607	-4.9831	-0.1139	Yes	209118_s_at	1.5498
NEW	Springgreen_UP	SGK3	220038_at	12636	-5.1187	-0.1037	Yes	227627_at	1.5170
NEW	Springgreen_UP	MPP1	202974_at	12713	-5.5067	-0.0962	Yes	202974_at	0.6470
NEW	Springgreen_UP	SGPP1	221268_s_at	12733	-5.6854	-0.0839	Yes	223391_at	1.1439
NEW	Springgreen_UP	CYP26A1	206424_at	12740	-5.7182	-0.0705	Yes	206424_at	0.6489
NEW	Springgreen_UP	ZCCHC24	212419_at	12768	-5.8700	-0.0583	Yes	212419_at	1.1963
NEW	Springgreen_UP	PDGFC	218718_at	12769	-5.8731	-0.0440	Yes	218718_at	1.7530
NEW	Springgreen_UP	FLJ10357	220326_s_at	12776	-5.9162	-0.0301	Yes	220326_s_at	0.8886
NEW	Springgreen_UP	PILRA	222218_s_at	12837	-6.4399	-0.0192	Yes	222218_s_at	1.2450
NEW	Springgreen_UP	IGFBP6	203851_at	12838	-6.4408	-0.0035	Yes	203851_at	0.5314
NEW	Springgreen_UP	NAGK	218231_at	12918	-7.5351	0.0087	Yes	218231_at	0.4800

Supplementary Table 1E

GSEA enriched module gene sets (FDR $q < 0.1$)

MM-GROUP	GENE SET	GENE.SYMBOL	PROBE	RANK.IN. GENE.LIST	RANK.METRIC. SCORE	RUNNING. ES	CORE. ENRICHMENT	AffyID Combination	Fold Change Combination
SMM	Blue_UP	SATB1	203408_s_at	3624	1.4106	-0.2436	No	203408_s_at	2.2924
SMM	Blue_UP	CAMSAP1L1	212763_at	7931	-0.3792	-0.5650	No	212765_at	0.8007
SMM	Blue_UP	PHC3	215521_at	9176	-0.9064	-0.6382	No	226508_at	1.3199
SMM	Blue_UP	HLA-DRB4	209728_at	11502	-2.3419	-0.7590	Yes	209728_at	3.1361
SMM	Blue_UP	CALCOCO1	209002_s_at	11526	-2.3632	-0.7024	Yes	209002_s_at	1.3443
SMM	Blue_UP	HLA-DRB6	217362_x_at	11680	-2.4852	-0.6528	Yes	217362_x_at	1.3574
SMM	Blue_UP	HLA-DQB1	211654_x_at	12005	-2.8292	-0.6079	Yes	211654_x_at	1.3513
SMM	Blue_UP	LOC731682	212671_s_at	12557	-3.8494	-0.5552	Yes	212671_s_at	2.2805
SMM	Blue_UP	HLA-DRB1	204670_x_at	12672	-4.1997	-0.4602	Yes	208306_x_at	1.2895
SMM	Blue_UP	HLA-DMA	217478_s_at	12745	-4.5116	-0.3544	Yes	217478_s_at	1.4991
SMM	Blue_UP	HLA-DPB1	201137_s_at	12752	-4.5780	-0.2418	Yes	201137_s_at	1.5092
SMM	Blue_UP	LOC100294276	209312_x_at	12828	-4.9259	-0.1260	Yes	209312_x_at	1.3887
SMM	Blue_UP	SPARCL1	200795_at	12921	-5.7240	0.0083	Yes	200795_at	1.1056
MGUS	Blue_UP	SATB1	203408_s_at	3704	1.1197	-0.2458	No	203408_s_at	2.2924
MGUS	Blue_UP	CALCOCO1	209002_s_at	9412	-0.9381	-0.6518	No	209002_s_at	1.3443
MGUS	Blue_UP	HLA-DRB6	217362_x_at	10028	-1.1922	-0.6578	Yes	217362_x_at	1.3574
MGUS	Blue_UP	HLA-DRB4	209728_at	10324	-1.3338	-0.6343	Yes	209728_at	3.1361
MGUS	Blue_UP	CAMSAP1L1	212763_at	10424	-1.3740	-0.5944	Yes	212765_at	0.8007
MGUS	Blue_UP	PHC3	215521_at	10897	-1.6480	-0.5736	Yes	226508_at	1.3199
MGUS	Blue_UP	HLA-DQB1	211654_x_at	11531	-2.0553	-0.5511	Yes	211654_x_at	1.3513
MGUS	Blue_UP	LOC731682	212671_s_at	12068	-2.5487	-0.5041	Yes	212671_s_at	2.2805
MGUS	Blue_UP	HLA-DMA	217478_s_at	12176	-2.6813	-0.4196	Yes	217478_s_at	1.4991
MGUS	Blue_UP	HLA-DPB1	201137_s_at	12362	-2.9258	-0.3326	Yes	201137_s_at	1.5092
MGUS	Blue_UP	HLA-DRB1	204670_x_at	12429	-3.0428	-0.2324	Yes	208306_x_at	1.2895
MGUS	Blue_UP	LOC100294276	209312_x_at	12659	-3.6620	-0.1233	Yes	209312_x_at	1.3887
MGUS	Blue_UP	SPARCL1	200795_at	12855	-4.3821	0.0134	Yes	200795_at	1.1056

Supplementary Table 1F

37 Survival Risk Predictor genes

The survival risk score (prognostic index) is computed by the formula:

$\sum_i w_i x_i - 4.552161$, where w_i and x_i are the weight and logged gene expression for the i -th gene.

A new sample is predicted as high (low) risk if its prognostic index is larger than (smaller than or equal to) -0.061194.

No	AffyID GSE4581	GeneID	% CV Support	Weight (w_i)	Cox regression coefficient	Hazards Ratio	univariate Cox p-value	AffyID Combination	Log2 Fold Change Combination
1	228361_at	E2F2	100	-0.017203	0.706	2.026	0.000161	228361_at	-2.5642
2	211576_s_at	SLC19A1	100	0.203801	0.415	1.515	0.000313	209777_s_at	-1.4453
3	200650_s_at	LDHA	100	0.040212	1.267	3.551	0.000749	200650_s_at	-1.2640
4	202954_at	UBE2C	100	0.017179	0.597	1.817	0.000767	202954_at	-1.4051
5	204033_at	TRIP13	100	0.046076	0.534	1.705	0.000809	204033_at	-2.5425
6	201890_at	RRM2	100	0.069265	0.421	1.524	0.000853	209773_s_at	-3.3973
7	212949_at	NCAPH	100	0.011961	0.338	1.403	0.000902	212949_at	-2.1530
8	1555772_a_at	CDC25A	100	0.031373	0.629	1.875	0.001141	204695_at	-2.3587
9	216237_s_at	MCM5	100	-0.003184	0.764	2.147	0.001254	216237_s_at	-2.2926
10	202705_at	CCNB2	100	0.054831	0.403	1.496	0.001369	202705_at	-2.1340
11	205024_s_at	RAD51	100	0.028679	0.606	1.832	0.001635	205024_s_at	-1.5192
12	222036_s_at	MCM4	100	0.020637	0.701	2.015	0.003035	212141_at	-2.3064
13	226508_at	PHC3	100	-0.01545	-0.979	0.376	0.003840	226508_at	1.3199
14	203145_at	SPAG5	100	0.015318	0.679	1.972	0.003990	203145_at	-2.3469
15	227211_at	PHF19	100	-0.015882	0.408	1.504	0.005021	227212_s_at	-2.3316
16	202107_s_at	MCM2	100	0.028639	0.571	1.769	0.005803	202107_s_at	-2.0679
17	208079_s_at	STK6	100	0.033502	0.329	1.390	0.007843	208079_s_at	-1.8883
18	224753_at	CDCA5	100	0.05834	0.326	1.385	0.008636	224753_at	-2.0297
19	218726_at	HJURP	100	0.098946	0.332	1.394	0.008934	218726_at	-1.9264
20	223307_at	CDCA3	80	0.011455	0.634	1.886	0.009810	223307_at	-1.9094
21	227121_at	Hs.193784	100	-0.014023	-0.570	0.566	0.011597	227121_at	2.1723
22	202870_s_at	CDC20	90	-0.013444	0.340	1.404	0.011909	202870_s_at	-1.5564
23	218308_at	TACC3	100	0.034436	0.280	1.324	0.012977	218308_at	-1.3035
24	203968_s_at	CDC6	80	0.002627	0.511	1.667	0.015071	203968_s_at	-2.5641
25	218782_s_at	ATAD2	90	0.002874	0.454	1.575	0.015982	218782_s_at	-2.5687
26	226252_at	Hs.202577	90	-0.024384	-0.606	0.546	0.016669	226250_at	1.8818
27	218619_s_at	SUV39H1	70	-0.007072	0.723	2.060	0.018322	218619_s_at	-1.1582
28	234672_s_at	TMEM48	90	0.016871	0.704	2.021	0.023457	234672_s_at	-1.4764
29	201710_at	MYBL2	50	-0.056413	0.214	1.239	0.029821	201710_at	-2.6352
30	205733_at	BLM	70	0.009443	0.565	1.760	0.031636	205733_at	-1.5970
31	209408_at	KIF2C	60	0.010982	0.616	1.852	0.033569	209408_at	-2.0440
32	224706_at	KIAA2013	50	-0.021992	-0.576	0.562	0.035131	224706_at	-1.1300
33	205739_x_at	ZNF107	60	0.009985	0.501	1.651	0.035876	243312_at	-0.9633
34	225777_at	C9orf140	60	0.068912	0.396	1.485	0.037516	225777_at	-1.5692
35	202183_s_at	KIF22	60	-0.015944	0.481	1.618	0.045240	202183_s_at	-1.6422
36	201137_s_at	HLA-DPB1	50	-0.190465	-0.254	0.776	0.046192	201137_s_at	1.5092
37	215093_at	NSDHL	30	0.016074	0.700	2.013	0.047773	209279_s_at	-1.3381

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM50988	low	Cross-validation
GSM50990	high	Cross-validation
GSM50991	low	Cross-validation
GSM50997	high	Cross-validation
GSM51000	high	Cross-validation
GSM51003	low	Cross-validation
GSM51006	high	Cross-validation
GSM51008	high	Cross-validation
GSM51011	high	Cross-validation
GSM51013	low	Cross-validation
GSM51015	high	Cross-validation
GSM51020	low	Cross-validation
GSM51023	high	Cross-validation
GSM51029	low	Cross-validation
GSM51032	low	Cross-validation
GSM51035	high	Cross-validation
GSM51037	low	Cross-validation
GSM51038	low	Cross-validation
GSM51043	high	Cross-validation
GSM51045	high	Cross-validation
GSM51049	high	Cross-validation
GSM51053	low	Cross-validation
GSM51054	low	Cross-validation
GSM51056	high	Cross-validation
GSM51057	high	Cross-validation
GSM51058	low	Cross-validation
GSM51061	low	Cross-validation
GSM51063	low	Cross-validation
GSM51064	low	Cross-validation
GSM51065	high	Cross-validation
GSM51066	low	Cross-validation
GSM51071	low	Cross-validation
GSM51074	high	Cross-validation
GSM51076	high	Cross-validation
GSM51081	low	Cross-validation
GSM51082	high	Cross-validation
GSM51086	low	Cross-validation
GSM51088	low	Cross-validation
GSM51089	low	Cross-validation
GSM51091	high	Cross-validation
GSM51092	low	Cross-validation
GSM51093	low	Cross-validation
GSM51096	high	Cross-validation
GSM51097	high	Cross-validation
GSM51098	low	Cross-validation
GSM51101	low	Cross-validation
GSM51104	high	Cross-validation
GSM51105	low	Cross-validation
GSM51108	high	Cross-validation
GSM51110	low	Cross-validation
GSM51112	high	Cross-validation
GSM51124	high	Cross-validation
GSM51128	low	Cross-validation
GSM51129	high	Cross-validation
GSM51131	high	Cross-validation
GSM51132	high	Cross-validation
GSM51133	high	Cross-validation
GSM51134	high	Cross-validation
GSM51137	high	Cross-validation
GSM51144	low	Cross-validation
GSM51145	high	Cross-validation
GSM51146	high	Cross-validation

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM51150	low	Cross-validation
GSM51151	high	Cross-validation
GSM51155	low	Cross-validation
GSM51157	low	Cross-validation
GSM51163	high	Cross-validation
GSM51167	low	Cross-validation
GSM51174	low	Cross-validation
GSM51179	low	Cross-validation
GSM51180	high	Cross-validation
GSM51182	low	Cross-validation
GSM51185	low	Cross-validation
GSM51186	high	Cross-validation
GSM51190	high	Cross-validation
GSM51201	high	Cross-validation
GSM51202	high	Cross-validation
GSM51204	low	Cross-validation
GSM51209	low	Cross-validation
GSM51211	low	Cross-validation
GSM51213	low	Cross-validation
GSM51219	high	Cross-validation
GSM51221	high	Cross-validation
GSM51222	low	Cross-validation
GSM51223	high	Cross-validation
GSM51229	low	Cross-validation
GSM51234	high	Cross-validation
GSM51236	low	Cross-validation
GSM51238	low	Cross-validation
GSM51239	low	Cross-validation
GSM51243	low	Cross-validation
GSM51248	high	Cross-validation
GSM51252	low	Cross-validation
GSM51254	high	Cross-validation
GSM51258	high	Cross-validation
GSM51259	high	Cross-validation
GSM51268	high	Cross-validation
GSM51269	low	Cross-validation
GSM51270	high	Cross-validation
GSM51274	high	Cross-validation
GSM51279	high	Cross-validation
GSM51282	high	Cross-validation
GSM51283	high	Cross-validation
GSM51285	low	Cross-validation
GSM51286	high	Cross-validation
GSM51287	low	Cross-validation
GSM51288	low	Cross-validation
GSM51289	low	Cross-validation
GSM51292	low	Cross-validation
GSM51293	high	Cross-validation
GSM51295	low	Cross-validation
GSM51297	high	Cross-validation
GSM51298	low	Cross-validation
GSM51302	low	Cross-validation
GSM51308	high	Cross-validation
GSM51315	high	Cross-validation
GSM51316	high	Cross-validation
GSM51319	low	Cross-validation
GSM51326	low	Cross-validation
GSM51328	low	Cross-validation
GSM51329	low	Cross-validation
GSM51334	high	Cross-validation
GSM51335	high	Cross-validation
GSM95646	low	Cross-validation

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM95647	high	Cross-validation
GSM95648	high	Cross-validation
GSM95654	high	Cross-validation
GSM95655	high	Cross-validation
GSM95658	high	Cross-validation
GSM95659	low	Cross-validation
GSM95660	high	Cross-validation
GSM95661	low	Cross-validation
GSM95663	high	Cross-validation
GSM95669	high	Cross-validation
GSM95672	high	Cross-validation
GSM95676	high	Cross-validation
GSM95678	high	Cross-validation
GSM95682	high	Cross-validation
GSM95684	low	Cross-validation
GSM95687	low	Cross-validation
GSM95689	high	Cross-validation
GSM95692	low	Cross-validation
GSM95693	low	Cross-validation
GSM95694	high	Cross-validation
GSM95695	low	Cross-validation
GSM95696	high	Cross-validation
GSM95697	low	Cross-validation
GSM95708	low	Cross-validation
GSM95716	low	Cross-validation
GSM95719	high	Cross-validation
GSM95720	high	Cross-validation
GSM95721	low	Cross-validation
GSM95724	low	Cross-validation
GSM95727	high	Cross-validation
GSM95728	low	Cross-validation
GSM95729	low	Cross-validation
GSM95730	low	Cross-validation
GSM95733	low	Cross-validation
GSM95738	high	Cross-validation
GSM95739	low	Cross-validation
GSM95740	high	Cross-validation
GSM95741	high	Cross-validation
GSM95747	high	Cross-validation
GSM95748	low	Cross-validation
GSM95752	low	Cross-validation
GSM95754	low	Cross-validation
GSM95755	low	Cross-validation
GSM95757	high	Cross-validation
GSM95759	high	Cross-validation
GSM95764	low	Cross-validation
GSM95766	low	Cross-validation
GSM95768	low	Cross-validation
GSM95773	low	Cross-validation
GSM95775	low	Cross-validation
GSM95776	high	Cross-validation
GSM95777	low	Cross-validation
GSM95782	low	Cross-validation
GSM95784	low	Cross-validation
GSM95785	low	Cross-validation
GSM95787	low	Cross-validation
GSM95788	low	Cross-validation
GSM95789	high	Cross-validation
GSM95792	low	Cross-validation
GSM95795	high	Cross-validation
GSM95799	high	Cross-validation
GSM95800	high	Cross-validation

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM95803	high	Cross-validation
GSM95805	low	Cross-validation
GSM95806	low	Cross-validation
GSM95808	high	Cross-validation
GSM95810	high	Cross-validation
GSM95815	low	Cross-validation
GSM95816	low	Cross-validation
GSM95823	low	Cross-validation
GSM102609	high	Cross-validation
GSM102611	high	Cross-validation
GSM102612	low	Cross-validation
GSM102613	high	Cross-validation
GSM102615	high	Cross-validation
GSM102616	low	Cross-validation
GSM102617	high	Cross-validation
GSM102620	high	Cross-validation
GSM102624	high	Cross-validation
GSM102625	low	Cross-validation
GSM102627	low	Cross-validation
GSM102628	low	Cross-validation
GSM102630	low	Cross-validation
GSM50986	high	Single-split test set
GSM50989	low	Single-split test set
GSM50992	high	Single-split test set
GSM50993	high	Single-split test set
GSM50995	high	Single-split test set
GSM51001	high	Single-split test set
GSM51002	high	Single-split test set
GSM51004	low	Single-split test set
GSM51005	high	Single-split test set
GSM51007	high	Single-split test set
GSM51010	high	Single-split test set
GSM51012	high	Single-split test set
GSM51014	low	Single-split test set
GSM51018	high	Single-split test set
GSM51019	high	Single-split test set
GSM51021	low	Single-split test set
GSM51022	low	Single-split test set
GSM51025	high	Single-split test set
GSM51026	high	Single-split test set
GSM51039	high	Single-split test set
GSM51040	low	Single-split test set
GSM51042	low	Single-split test set
GSM51044	low	Single-split test set
GSM51046	low	Single-split test set
GSM51047	low	Single-split test set
GSM51048	high	Single-split test set
GSM51051	low	Single-split test set
GSM51052	high	Single-split test set
GSM51060	low	Single-split test set
GSM51067	high	Single-split test set
GSM51070	low	Single-split test set
GSM51072	low	Single-split test set
GSM51073	low	Single-split test set
GSM51075	high	Single-split test set
GSM51077	low	Single-split test set
GSM51078	high	Single-split test set
GSM51080	high	Single-split test set
GSM51090	high	Single-split test set
GSM51099	high	Single-split test set
GSM51100	high	Single-split test set
GSM51102	low	Single-split test set

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM51103	low	Single-split test set
GSM51107	low	Single-split test set
GSM51113	low	Single-split test set
GSM51114	low	Single-split test set
GSM51116	low	Single-split test set
GSM51117	high	Single-split test set
GSM51120	low	Single-split test set
GSM51123	high	Single-split test set
GSM51125	high	Single-split test set
GSM51126	high	Single-split test set
GSM51127	high	Single-split test set
GSM51130	high	Single-split test set
GSM51135	high	Single-split test set
GSM51136	high	Single-split test set
GSM51140	low	Single-split test set
GSM51141	high	Single-split test set
GSM51142	high	Single-split test set
GSM51143	low	Single-split test set
GSM51148	low	Single-split test set
GSM51154	high	Single-split test set
GSM51160	high	Single-split test set
GSM51162	high	Single-split test set
GSM51165	high	Single-split test set
GSM51166	high	Single-split test set
GSM51170	low	Single-split test set
GSM51171	low	Single-split test set
GSM51172	low	Single-split test set
GSM51175	low	Single-split test set
GSM51178	low	Single-split test set
GSM51181	low	Single-split test set
GSM51184	low	Single-split test set
GSM51188	high	Single-split test set
GSM51189	low	Single-split test set
GSM51191	high	Single-split test set
GSM51194	low	Single-split test set
GSM51198	low	Single-split test set
GSM51199	high	Single-split test set
GSM51200	low	Single-split test set
GSM51205	high	Single-split test set
GSM51208	low	Single-split test set
GSM51210	high	Single-split test set
GSM51214	high	Single-split test set
GSM51215	high	Single-split test set
GSM51216	high	Single-split test set
GSM51217	high	Single-split test set
GSM51224	low	Single-split test set
GSM51225	high	Single-split test set
GSM51228	high	Single-split test set
GSM51231	high	Single-split test set
GSM51233	high	Single-split test set
GSM51235	high	Single-split test set
GSM51237	high	Single-split test set
GSM51240	low	Single-split test set
GSM51242	high	Single-split test set
GSM51244	high	Single-split test set
GSM51246	high	Single-split test set
GSM51250	low	Single-split test set
GSM51251	high	Single-split test set
GSM51256	low	Single-split test set
GSM51257	high	Single-split test set
GSM51260	low	Single-split test set
GSM51263	low	Single-split test set

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM51264	low	Single-split test set
GSM51272	high	Single-split test set
GSM51273	high	Single-split test set
GSM51277	low	Single-split test set
GSM51278	low	Single-split test set
GSM51284	low	Single-split test set
GSM51290	low	Single-split test set
GSM51291	high	Single-split test set
GSM51294	low	Single-split test set
GSM51296	low	Single-split test set
GSM51299	low	Single-split test set
GSM51300	low	Single-split test set
GSM51301	high	Single-split test set
GSM51303	high	Single-split test set
GSM51306	low	Single-split test set
GSM51307	high	Single-split test set
GSM51310	low	Single-split test set
GSM51311	low	Single-split test set
GSM51312	low	Single-split test set
GSM51313	low	Single-split test set
GSM51317	low	Single-split test set
GSM51318	high	Single-split test set
GSM51321	low	Single-split test set
GSM51322	low	Single-split test set
GSM51324	high	Single-split test set
GSM51327	high	Single-split test set
GSM51330	low	Single-split test set
GSM51331	high	Single-split test set
GSM51333	low	Single-split test set
GSM51336	low	Single-split test set
GSM95649	low	Single-split test set
GSM95650	low	Single-split test set
GSM95653	low	Single-split test set
GSM95664	low	Single-split test set
GSM95667	high	Single-split test set
GSM95668	high	Single-split test set
GSM95670	high	Single-split test set
GSM95671	high	Single-split test set
GSM95673	low	Single-split test set
GSM95674	high	Single-split test set
GSM95675	low	Single-split test set
GSM95677	high	Single-split test set
GSM95680	high	Single-split test set
GSM95681	high	Single-split test set
GSM95690	high	Single-split test set
GSM95691	high	Single-split test set
GSM95699	high	Single-split test set
GSM95702	high	Single-split test set
GSM95703	high	Single-split test set
GSM95706	high	Single-split test set
GSM95709	low	Single-split test set
GSM95714	high	Single-split test set
GSM95715	high	Single-split test set
GSM95718	high	Single-split test set
GSM95725	low	Single-split test set
GSM95726	high	Single-split test set
GSM95734	high	Single-split test set
GSM95737	low	Single-split test set
GSM95742	high	Single-split test set
GSM95743	low	Single-split test set
GSM95744	high	Single-split test set
GSM95746	low	Single-split test set

Supplementary Table 1G

Risk prediction in 414 MM patients (GSE4581)

Patient ID	Predicted risk	Validation
GSM95749	high	Single-split test set
GSM95751	high	Single-split test set
GSM95753	low	Single-split test set
GSM95760	low	Single-split test set
GSM95763	high	Single-split test set
GSM95767	low	Single-split test set
GSM95771	high	Single-split test set
GSM95778	high	Single-split test set
GSM95779	low	Single-split test set
GSM95780	low	Single-split test set
GSM95781	low	Single-split test set
GSM95783	high	Single-split test set
GSM95786	high	Single-split test set
GSM95790	low	Single-split test set
GSM95791	high	Single-split test set
GSM95793	low	Single-split test set
GSM95794	low	Single-split test set
GSM95796	low	Single-split test set
GSM95802	low	Single-split test set
GSM95804	high	Single-split test set
GSM95807	high	Single-split test set
GSM95809	low	Single-split test set
GSM95811	high	Single-split test set
GSM95812	low	Single-split test set
GSM95817	low	Single-split test set
GSM95818	high	Single-split test set
GSM95819	low	Single-split test set
GSM95825	high	Single-split test set
GSM102606	low	Single-split test set
GSM102607	high	Single-split test set
GSM102610	low	Single-split test set
GSM102614	high	Single-split test set
GSM102618	low	Single-split test set
GSM102621	low	Single-split test set
GSM102622	high	Single-split test set
GSM102623	high	Single-split test set
GSM102626	high	Single-split test set
GSM102629	low	Single-split test set
GSM102631	high	Single-split test set
GSM102632	high	Single-split test set
GSM102633	low	Single-split test set
GSM102634	low	Single-split test set

Supplementary Table S1H

MYC mutation data retrieved from <http://www.cbioportal.org>, <http://cancer.sanger.ac.uk/cosmic>, and <http://www.keatslab.org>

Source Database	Sample Name	Sample Type	Genomic Position	Variant	Codon Change	Consequence	Condel Score
cBioPortal	ST486	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>A	P57T	missense_variant	deleterious (0.889)
cBioPortal	SUDHL10	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>A	P57T	missense_variant	deleterious (0.889)
cBioPortal	CA46	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>T	P57S	missense_variant	deleterious (0.708)
cBioPortal	P3HR1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>T	P57S	missense_variant	deleterious (0.708)
cBioPortal	SUDHL8	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>T	P57S	missense_variant	deleterious (0.708)
COSMIC	tumor_4177856	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677	C>T	P57S	missense_variant	deleterious (0.708)
COSMIC	40_tFL	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750677 128750679	delCCC	P57delP	inframe_deletion	-
cBioPortal	BL70	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750678	C>A	P57H	missense_variant	deleterious (0.911)
COSMIC	PD9328a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750678	C>T	P57L	missense_variant	deleterious (0.897)
cBioPortal COSMIC	ESO-151	ESOPHAGUS_CARCINOMA	8:128750680	A>C	T58P	missense_variant	deleterious (0.806)
cBioPortal COSMIC	LUAD-RT-S01477	NON-SMALL_CELL_LUNG_CANCER	8:128750680	A>C	T58P	missense_variant	deleterious (0.806)
COSMIC	TCGA-ER-A19D-06	SKIN_MELANOMA	8:128750680	A>C	T58P	missense_variant	deleterious (0.806)
COSMIC	WSU-HN8	UPPER_AERODIGESTIVE_TRACT_CARCINOMA	8:128750680	A>C	T58P	missense_variant	deleterious (0.806)
COSMIC	B89-4-Tumor	URINARY_TRACT_CARCINOMA	8:128750680	A>C	T58P	missense_variant	deleterious (0.806)
cBioPortal	EB2	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750680	A>G	T58A	missense_variant	deleterious (0.610)
COSMIC	QC2-21-T2	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750680	A>G	T58A	missense_variant	deleterious (0.610)
COSMIC	29_tFL	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750680	A>G	T58A	missense_variant	deleterious (0.610)
COSMIC	PA285	PANCREAS_CARCINOMA	8:128750680	A>G	T58A	missense_variant	deleterious (0.610)
cBioPortal	JM1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>A	T58N	missense_variant	deleterious (0.825)
COSMIC	PD11017a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>A	T58N	missense_variant	deleterious (0.825)
COSMIC	PD9314a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>A	T58N	missense_variant	deleterious (0.825)
COSMIC	tumor_4144633	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>A	T58N	missense_variant	deleterious (0.825)
COSMIC	NB-0445	AUTONOMIC_GANGLIA_NEUROBLASTOMA	8:128750681	C>T	T58I	missense_variant	deleterious (0.870)
cBioPortal	CTCL_NU20	CUTANEOUS_T-CELL_LYMPHOMA	8:128750681	C>T	T58I	missense_variant	deleterious (0.870)
cBioPortal	BL70	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>T	T58I	missense_variant	deleterious (0.870)
cBioPortal	NUDUL1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>T	T58I	missense_variant	deleterious (0.870)
COSMIC	SJERG020052_D1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681	C>T	T58I	missense_variant	deleterious (0.870)

Supplementary Table S1H

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Source Database	Sample Name	Sample Type	Genomic Position	Variant	Codon Change	Consequence	Condel Score
cBioPortal	RAJI	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750681-128750682	CC>TT	T58I	missense_variant	deleterious (0.870)
COSMIC	PD10978a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>A	P59T	missense_variant	deleterious (0.883)
COSMIC	12_tFL	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>A	P59T	missense_variant	deleterious (0.883)
cBioPortal	TCGA-86-A4JF-01	NON-SMALL_CELL_LUNG_CANCER	8:128750683	C>A	P59T	missense_variant	deleterious (0.883)
cBioPortal	NUDHL1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	PD8568a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	PD8082a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	PD10851a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	PD8180a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	QC2-11-T2	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>G	P59A	missense_variant	deleterious (0.896)
COSMIC	BL4	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>T	P59S	missense_variant	deleterious (0.935)
COSMIC	tumor_4190495	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750683	C>T	P59S	missense_variant	deleterious (0.935)
cBioPortal	TCGA-DX-A8BP-01	SARCOMA	8:128750683	C>T	P59S	missense_variant	deleterious (0.935)
cBioPortal COSMIC	TCGA-EB-A4P0-01	SKIN_MELANOMA	8:128750683	C>T	P59S	missense_variant	deleterious (0.935)
COSMIC	PD7661a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>A	P59Q	missense_variant	deleterious (0.945)
COSMIC	PD10964a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>A	P59Q	missense_variant	deleterious (0.945)
COSMIC	PD7771a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>A	P59Q	missense_variant	deleterious (0.945)
COSMIC	CN-AML-CR-57-Dx	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>A	P59Q	missense_variant	deleterious (0.945)
cBioPortal	P-0002978-T02-IM5	HEAD_AND_NECK_CANCER	8:128750684	C>A	P59Q	missense_variant	deleterious (0.945)
COSMIC	PD7926a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>G	P59R	missense_variant	deleterious (0.945)
cBioPortal COSMIC	TCGA-AB-2827-03	ACUTE_MYELOID_LEUKEMIA	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
cBioPortal	PL21	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD8336a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	ID18	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD8426a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD7382a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD7927a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)

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Source Database	Sample Name	Sample Type	Genomic Position	Variant	Codon Change	Consequence	Condel Score
COSMIC	PD8007a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD10800a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
cBioPortal COSMIC	TCGA-AB-2827-03	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD8190a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD7909a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	PD9362a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
cBioPortal	TCGA-DX-A8BP-01	SARCOMA	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
cBioPortal COSMIC	TCGA-FW-A3R5-06	SKN_MELANOMA	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
COSMIC	DM26	SKIN_MELANOMA	8:128750684	C>T	P59L	missense_variant	deleterious (0.945)
cBioPortal	A4FUK	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>A	P60T	missense_variant	deleterious (0.897)
COSMIC	PD8323a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>A	P60T	missense_variant	deleterious (0.897)
cBioPortal	SUDHL5	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>G	P60A	missense_variant	deleterious (0.840)
COSMIC	tumor_4142267	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>G	P60A	missense_variant	deleterious (0.840)
COSMIC	SJBALL021427_D1	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>T	P60S	missense_variant	deleterious (0.858)
COSMIC	PD8188a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>T	P60S	missense_variant	deleterious (0.858)
COSMIC	PD7782a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750686	C>T	P60S	missense_variant	deleterious (0.858)
cBioPortal	CA46	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750687	C>A	P60H	missense_variant	deleterious (0.911)
COSMIC	PD10940a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750687	C>A	P60H	missense_variant	deleterious (0.911)
COSMIC	TARGET-20-PAEFGT-09A-01D	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750687	C>A	P60H	missense_variant	deleterious (0.911)
COSMIC	TARGET-20-PAEFGT-04A-01D	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750687	C>A	P60H	missense_variant	deleterious (0.911)
COSMIC	PD10850a	HAEMATOPOIETIC_AND_LYMPHOID_TISSUE	8:128750687	C>T	P60L	missense_variant	deleterious (0.897)
COSMIC	CSCC-5-T	SKIN_CARCINOMA	8:128750688	C>T	P60P	synonymous_variant	-
cBioPortal COSMIC	S06-38853-TP	SKIN_CARCINOMA	8:128750693	C>T	S62F	missense_variant	deleterious (0.895)
TGen	KMM1	MULTIPLE_MYLEOMA	8:128750741	C>G	T59R	missense_variant	neutral (0.026)

T58 and S62 are based on the amino acid position of UniProt id P01106, which is widely used in the literature. The cBioPortal annotation is based on NP_002458, corresponding to UniProt id P01106-2, which has extra 15 amino acids at the N-terminal end than P01106. The extra 15 amino acids are caused by an alternative splicing form.

Mutation Consequence and Condel Score were obtained with Ensembl Variant Effect Predictor (VEP) from <http://grch37.ensembl.org/>.