

Supplementary Table 1. There were 245 transcripts with statistically significant treatment response x medication x probeset interaction effects on expression after FDR step-up correction. The Affymetrix transcript ID, gene symbol, nominal p-values, FDR step-up p-value, and means for each group are shown in the table below. (Abbreviations: Med – Medication; OLZ – Olanzapine, Risp – Risperidone; TR – treatment response; Resp – Responder; Non-Resp – Non-responder).

Transcript ID	Gene Symbol	Med x TR x Probeset p-value	Med x TR x Probeset Step-up p-value	Mean (OLZ NON-RESP)	Mean (OLZ RESP)	Mean (RISP NONRESP)	Mean (RISP RESP)
2932508	TIAM2	5.68 X 10-20	1.23 X 10-15	0.23	0.04	-0.04	0.19
3000342	ADCY1	1.22 X 10-19	1.32 X 10-15	0.48	0.45	0.36	0.72
2607055	PASK	7.92 X 10-13	5.28 X 10-09	1.16	0.99	0.96	1.05
3091077	DPYSL2	9.78 X 10-13	5.28 X 10-09	1.08	1.03	1.00	1.13
3881651	HCK	2.42 X 10-11	1.04 X 10-07	1.13	0.82	0.69	1.13
3041816	DFNA5	2.38 X 10-10	8.56 X 10-07	1.35	1.18	1.04	1.25
2452069	PIK3C2B	5.83 X 10-09	1.80 X 10-05	1.19	1.05	1.01	1.05
3494137	LMO7	9.38 X 10-09	2.53 X 10-05	0.39	0.39	0.27	0.56
3269587	C10orf137	1.53 X 10-08	3.41 X 10-05	0.78	0.72	0.74	0.68
3011492	ADAM22	1.58 X 10-08	3.41 X 10-05	0.41	0.19	0.07	0.24
2785282	SCLT1	2.37 X 10-08	4.65 X 10-05	0.65	0.42	0.31	0.45
2371547	C1orf21	6.74 X 10-08	0.0001	-0.15	-0.20	-0.15	-0.04
3772279	SOCS3	8.66 X 10-08	0.0001	0.80	0.57	0.60	0.72
2360083	UBAP2L	1.85 X 10-07	0.0003	1.23	1.26	1.29	1.27
3177880	DAPK1	1.97 X 10-07	0.0003	1.03	0.81	0.87	0.89
2948926	HLA-B	2.09 X 10-07	0.0003	1.58	1.54	1.52	1.59
3984945	ARMCX3	2.27 X 10-07	0.0003	0.69	0.60	0.54	0.67
2950125	HLA-DQB2	2.85 X 10-07	0.0003	0.47	0.42	0.34	0.48
2991395	HDAC9	2.93 X 10-07	0.0003	0.03	-0.05	-0.12	-0.02
2707824	MCCC1	3.16 X 10-07	0.0003	1.37	1.22	1.08	1.24
3103607	GDAP1	3.98 X 10-07	0.0004	0.39	0.29	0.29	0.35
3666409	CDH1	4.02 X 10-07	0.0004	0.38	0.28	0.11	0.58
3459120	LRIG3	6.24 X 10-07	0.0006	0.23	-0.09	-0.02	0.06
2727226	PDGFRA	6.58 X 10-07	0.0006	0.16	0.12	0.11	0.14
2819044	RASA1	1.04 X 10-06	0.0009	0.64	0.50	0.44	0.56
2426559	SLC25A24	1.26 X 10-06	0.0010	-0.05	-0.27	-0.22	-0.02
2545811	PPM1G	1.76 X 10-06	0.0014	1.29	1.21	1.23	1.24

2474322	C2orf28	1.78 X 10-06	0.0014	1.31	1.20	1.17	1.18
2334459	TMEM69	1.97 X 10-06	0.0014	1.48	1.37	1.25	1.36
2892393	BPHL	1.99 X 10-06	0.0014	0.08	0.00	0.03	0.04
2854327	FYB	2.13 X 10-06	0.0015	-0.50	-0.65	-0.67	-0.54
2975014	SGK1	2.24 X 10-06	0.0015	-0.05	-0.15	-0.14	0.03
3214668	IARS	3.08 X 10-06	0.0020	1.58	1.53	1.48	1.54
2627080	C3orf14	3.18 X 10-06	0.0020	-0.31	-0.51	-0.51	-0.44
2488959	STAMBP	3.25 X 10-06	0.0020	0.61	0.52	0.49	0.52
2833286	ARHGAP26	4.02 X 10-06	0.0024	0.36	0.30	0.21	0.32
3564210	PYGL	4.06 X 10-06	0.0024	0.01	-0.22	-0.28	-0.15
3864646	KCNN4	4.27 X 10-06	0.0024	1.04	1.02	1.02	1.05
2364231	DDR2	4.62 X 10-06	0.0026	0.19	0.15	0.07	0.23
3419898	RASSF3	5.34 X 10-06	0.0029	1.01	0.87	0.93	0.96
2479746	C2orf34	5.77 X 10-06	0.0030	-0.03	-0.17	-0.22	-0.09
3676134	SPSB3	6.54 X 10-06	0.0033	0.98	0.98	1.02	1.02
2383356	CABC1	6.67 X 10-06	0.0033	0.67	0.65	0.66	0.70
2933650	TMEM181	6.94 X 10-06	0.0034	0.72	0.58	0.56	0.58
3744680	PIK3R5	7.01 X 10-06	0.0034	1.06	0.99	0.94	1.07
3862452	CNTD2	8.73 X 10-06	0.0041	0.70	0.76	0.82	0.85
3602634	ISL2	8.92 X 10-06	0.0041	0.64	0.61	0.67	0.72
3332663	CD6	9.31 X 10-06	0.0042	0.17	0.16	0.24	0.30
2328674	KPNA6	9.77 X 10-06	0.0043	1.72	1.68	1.65	1.68
3939365	SMARCB1	1.04 X 10-05	0.0045	1.93	1.75	1.88	1.84
3939183	BCR	1.09 X 10-05	0.0045	0.46	0.31	0.47	0.48
3091403	EPHX2	1.09 X 10-05	0.0045	0.45	0.25	0.29	0.30
3831945	ZNF793	1.14 X 10-05	0.0047	0.15	0.20	0.05	0.19
2655113	KLHL24	1.25 X 10-05	0.0050	0.24	0.16	0.11	0.26
2766359	RFC1	1.53 X 10-05	0.0060	1.09	1.03	0.99	1.03
2994558	CREB5	1.70 X 10-05	0.0065	-0.10	-0.07	-0.15	0.08
3361381	CYB5R2	1.73 X 10-05	0.0065	0.76	0.65	0.65	0.73
2744980	SCOC	1.74 X 10-05	0.0065	-0.06	-0.13	-0.17	-0.12
2882098	SPARC	1.77 X 10-05	0.0065	1.13	1.05	0.97	1.14
2883440	ADAM19	1.81 X 10-05	0.0065	0.67	0.47	0.57	0.64
2759158	JAKMIP1	1.88 X 10-05	0.0066	0.43	0.28	0.36	0.41
2330899	UTP11L	1.96 X 10-05	0.0068	0.98	0.81	0.72	0.79
3953086	LOC388849	2.03 X 10-05	0.0069	0.58	0.66	0.63	0.57
2400373	EIF4G3	2.06 X 10-05	0.0069	0.83	0.67	0.67	0.73
3598199	ANKDD1A	2.11 X 10-05	0.0070	0.69	0.59	0.64	0.60
2512055	TANC1	2.19 X 10-05	0.0071	0.23	0.01	0.18	0.24
2902427	LST1	2.21 X 10-05	0.0071	0.69	0.66	0.61	0.68
3973839	CYBB	2.68 X 10-05	0.0085	1.38	1.44	1.42	1.42
2765590	ARAP2	2.78 X 10-05	0.0087	0.24	0.17	0.12	0.28
2583374	PLA2R1	2.89 X 10-05	0.0089	-0.55	-0.53	-0.48	-0.51

2823880	CAMK4	3.05 X 10-05	0.0093	1.00	0.81	0.81	0.94
2553282	PSME4	3.10 X 10-05	0.0093	1.02	0.84	0.76	0.91
2500919	SLC20A1	3.18 X 10-05	0.0094	1.54	1.24	1.14	1.32
2748198	KIAA0922	3.23 X 10-05	0.0094	1.44	1.40	1.36	1.41
2336383	PRPF38A	3.35 X 10-05	0.0096	0.91	0.89	0.79	0.88
3400625	ADIPOR2	3.65 X 10-05	0.0104	1.14	1.12	1.14	1.11
2438042	SMG5	3.96 X 10-05	0.0111	1.49	1.35	1.34	1.36
2498143	NCK2	4.31 X 10-05	0.0119	0.96	0.81	0.79	0.89
3602526	FBXO22	4.83 X 10-05	0.0132	1.14	1.03	0.99	1.06
2573641	CLASP1	4.99 X 10-05	0.0133	1.06	1.01	0.93	1.01
2686023	DCBLD2	5.03 X 10-05	0.0133	0.10	-0.10	-0.07	-0.06
2767790	GNPDA2	5.06 X 10-05	0.0133	0.11	-0.08	-0.16	0.01
3064082	LRCH4	5.10 X 10-05	0.0133	0.95	0.95	1.00	0.98
2829275	UBE2B	5.25 X 10-05	0.0133	0.34	0.19	0.17	0.25
2939593	PECI	5.25 X 10-05	0.0133	0.73	0.59	0.60	0.61
2508611	ARHGAP15	5.39 X 10-05	0.0134	0.20	0.08	0.05	0.12
2609560	THUMPD3	5.39 X 10-05	0.0134	1.21	1.05	0.89	1.09
3863576	PAFAH1B3	5.48 X 10-05	0.0134	0.95	0.95	1.02	1.03
2863049	C5orf37	5.98 X 10-05	0.0145	0.37	0.23	0.16	0.26
3783529	DSG2	6.08 X 10-05	0.0146	0.83	0.56	0.63	0.71
2769947	CLOCK	6.72 X 10-05	0.0158	-0.01	-0.11	-0.16	-0.08
2360346	CHRNA2	6.72 X 10-05	0.0158	0.02	0.01	0.03	0.00
3468743	NT5DC3	7.14 X 10-05	0.0165	0.71	0.56	0.63	0.66
2610336	VHL	7.20 X 10-05	0.0165	0.85	0.72	0.74	0.79
2993727	SNX10	7.44 X 10-05	0.0169	0.50	0.38	0.30	0.38
2669007	DCLK3	7.64 X 10-05	0.0172	-0.13	-0.17	-0.07	-0.07
3305017	OBFC1	7.89 X 10-05	0.0176	0.55	0.37	0.42	0.43
3251848	SEC24C	8.50 X 10-05	0.0186	1.49	1.38	1.41	1.40
3079803	PRKAG2	8.54 X 10-05	0.0186	0.03	0.00	0.04	0.03
2808748	PARP8	8.75 X 10-05	0.0189	0.78	0.67	0.55	0.63
2954025	TRERF1	8.94 X 10-05	0.0190	0.90	0.82	0.81	0.93
3114600	TRMT12	8.99 X 10-05	0.0190	0.47	0.38	0.33	0.44
3179706	WNK2	9.18 X 10-05	0.0192	0.25	0.30	0.34	0.29
2674673	IP6K1	9.36 X 10-05	0.0193	0.66	0.52	0.55	0.60
2560704	C2orf3	9.38 X 10-05	0.0193	-0.05	-0.22	-0.29	-0.11
2676518	SFMBT1	9.56 X 10-05	0.0195	0.59	0.52	0.50	0.55
2903075	PPT2	9.73 X 10-05	0.0196	0.30	0.33	0.31	0.34
3192033	PPAPDC3	9.92 X 10-05	0.0198	0.32	0.37	0.43	0.40
3379708	MRPL21	0.0001	0.0202	0.85	0.71	0.79	0.79
3839563	KLK2	0.0001	0.0202	0.24	0.19	0.16	0.24
2912777	FAM135A	0.0001	0.0203	0.25	0.11	0.04	0.16
3447694	BCAT1	0.0001	0.0222	1.12	0.96	0.94	1.02
3378732	POLD4	0.0001	0.0224	1.18	1.13	1.10	1.08

2568630	TGFBRAP1	0.0001	0.0228	1.28	1.12	1.09	1.14
2452859	LGTN	0.0001	0.0228	0.83	0.75	0.71	0.76
3869030	SIGLEC10	0.0001	0.0237	0.46	0.48	0.51	0.54
2893130	FARS2	0.0001	0.0237	0.31	0.23	0.19	0.28
3089285	POLR3D	0.0001	0.0237	0.94	0.87	0.87	0.92
2517013	MTX2	0.0001	0.0251	0.95	0.70	0.59	0.73
2672532	SETD2	0.0001	0.0258	0.97	0.88	0.82	0.87
2733767	ENOPH1	0.0001	0.0258	0.89	0.79	0.76	0.81
2328936	ZBTB8A	0.0001	0.0258	-0.10	-0.34	-0.17	-0.14
2886679	KCNMB1	0.0001	0.0262	0.32	0.46	0.27	0.45
2719481	CC2D2A	0.0002	0.0263	-0.62	-0.62	-0.60	-0.62
2608725	BHLHE40	0.0002	0.0263	1.40	1.24	1.24	1.38
3864725	ZNF45	0.0002	0.0269	0.52	0.42	0.34	0.47
2438792	ETV3	0.0002	0.0271	0.57	0.52	0.41	0.47
3226237	DPM2	0.0002	0.0272	0.69	0.68	0.68	0.63
3818547	VAV1	0.0002	0.0274	1.13	1.01	1.10	1.09
2809793	GZMK	0.0002	0.0277	-0.82	-0.84	-0.83	-0.80
2452977	FAIM3	0.0002	0.0284	1.99	2.03	2.04	2.08
3450234	PKP2	0.0002	0.0288	-0.17	-0.03	-0.01	-0.14
3037535	ZNF12	0.0002	0.0290	0.67	0.56	0.49	0.63
2651835	GPR160	0.0002	0.0290	0.86	0.61	0.51	0.76
3820865	CARM1	0.0002	0.0291	1.75	1.68	1.74	1.71
2515707	PDK1	0.0002	0.0299	1.75	1.67	1.52	1.62
3664843	CMTM3	0.0002	0.0299	0.81	0.71	0.80	0.89
3945684	APOBEC3H	0.0002	0.0305	0.92	0.79	0.77	0.79
2467691	TTC15	0.0002	0.0305	0.47	0.46	0.47	0.46
3288224	FRMPD2	0.0002	0.0305	0.03	0.03	-0.01	0.09
3248532	ARID5B	0.0002	0.0305	0.65	0.51	0.58	0.73
3261419	HPS6	0.0002	0.0305	0.76	0.81	0.85	0.79
2895352	PHACTR1	0.0002	0.0310	0.52	0.52	0.51	0.57
2768145	COMMD8	0.0002	0.0311	0.22	-0.03	-0.09	0.03
3726569	SPATA20	0.0002	0.0311	0.82	0.71	0.83	0.86
3848020	TNFSF14	0.0002	0.0314	0.87	0.80	0.83	0.85
3724545	ITGB3	0.0002	0.0314	0.73	0.64	0.29	0.55
2949148	BAT3	0.0002	0.0314	1.97	1.95	2.00	1.96
3652489	POLR3E	0.0002	0.0314	0.90	0.88	0.88	0.91
2506570	GPR39	0.0002	0.0314	-0.28	-0.23	-0.22	-0.19
3630668	CALML4	0.0002	0.0314	0.43	0.38	0.36	0.37
3476741	UBC	0.0002	0.0314	1.05	1.23	1.51	1.38
2394817	KLHL21	0.0002	0.0314	0.63	0.56	0.60	0.64
2861952	MRPS27	0.0002	0.0314	0.72	0.64	0.60	0.70
3676356	ZNF598	0.0002	0.0323	1.12	1.10	1.18	1.13
3226661	ZER1	0.0002	0.0328	1.14	1.06	1.04	1.09

2957462	GSTA4	0.0002	0.0329	-0.41	-0.38	-0.36	-0.37
3626826	MYO1E	0.0003	0.0350	1.66	1.56	1.57	1.62
3063337	ZNF394	0.0003	0.0350	1.25	1.13	1.06	1.16
2385146	TRIM67	0.0003	0.0350	0.32	0.42	0.50	0.43
2378662	TRAF5	0.0003	0.0350	0.65	0.57	0.50	0.67
2836518	GALNT10	0.0003	0.0350	0.99	0.89	0.96	1.00
2409507	SLC6A9	0.0003	0.0350	0.68	0.66	0.70	0.75
2914444	IRAK1BP1	0.0003	0.0367	-0.35	-0.40	-0.43	-0.36
2430762	WARS2	0.0003	0.0367	0.17	0.06	0.01	0.09
3590388	NUSAP1	0.0003	0.0367	1.54	1.37	1.36	1.47
3414561	DIP2B	0.0003	0.0371	1.20	1.09	1.13	1.19
3434888	ORAI1	0.0003	0.0376	1.68	1.57	1.68	1.65
2316245	PRKCZ	0.0003	0.0380	0.53	0.49	0.49	0.47
3617757	AQR	0.0003	0.0380	0.83	0.76	0.80	0.79
3191074	METTL11A	0.0003	0.0389	0.85	0.78	0.83	0.80
3079103	GIMAP6	0.0003	0.0389	1.19	1.01	0.95	1.28
2844479	SQSTM1	0.0003	0.0389	1.37	1.29	1.28	1.40
3226253	FAM102A	0.0003	0.0389	1.25	1.16	1.23	1.37
3619229	BMF	0.0003	0.0389	0.98	1.02	1.07	1.03
3818596	EMR1	0.0003	0.0389	-0.01	-0.15	-0.12	-0.02
3108901	VPS13B	0.0003	0.0389	0.83	0.73	0.62	0.74
3817437	FSD1	0.0003	0.0389	0.33	0.35	0.45	0.36
3713951	SLC47A1	0.0003	0.0389	0.32	0.22	0.14	0.28
2316558	RER1	0.0003	0.0389	0.92	0.86	0.82	0.87
3779817	CEP192	0.0003	0.0389	0.82	0.70	0.66	0.69
2601230	SCG2	0.0003	0.0389	-0.58	-0.55	-0.52	-0.54
3932131	PSMG1	0.0003	0.0389	1.17	0.97	1.02	1.09
3698919	GLG1	0.0003	0.0391	1.03	1.08	1.11	1.09
3776279	EMILIN2	0.0003	0.0391	0.57	0.53	0.71	0.67
2664640	RFTN1	0.0003	0.0392	1.57	1.52	1.48	1.53
2857204	PPAP2A	0.0003	0.0392	0.08	-0.04	-0.04	0.02
2420642	MCOLN2	0.0003	0.0392	1.66	1.56	1.52	1.62
2528620	GMPPA	0.0003	0.0393	1.24	1.04	1.14	1.08
2515050	GORASP2	0.0003	0.0394	1.01	0.94	0.92	0.92
2350840	GNAI3	0.0003	0.0394	1.30	1.26	1.18	1.25
2828564	RAD50	0.0004	0.0397	1.42	1.31	1.16	1.30
2697792	COPB2	0.0004	0.0399	1.34	1.18	1.14	1.19
3029498	OR2A2	0.0004	0.0401	-0.50	-0.38	-0.31	-0.44
2388525	SDCCAG8	0.0004	0.0401	0.14	0.05	0.01	0.06
3847112	PTPRS	0.0004	0.0419	0.53	0.52	0.55	0.65
3098977	LYN	0.0004	0.0420	1.81	1.81	1.71	1.77
2525182	CCNYL1	0.0004	0.0422	0.35	0.25	0.26	0.34
2827388	PRRC1	0.0004	0.0422	1.58	1.45	1.35	1.41

2940826	TXNDC5	0.0004	0.0422	1.69	1.66	1.64	1.59
2775259	RASGEF1B	0.0004	0.0422	-0.35	-0.38	-0.40	-0.34
3976609	FTSJ1	0.0004	0.0426	1.40	1.28	1.34	1.35
3513514	P2RY5	0.0004	0.0426	-0.43	-0.23	-0.29	-0.32
3903670	GSS	0.0004	0.0426	1.09	0.99	1.07	1.00
2523801	CD28	0.0004	0.0426	0.15	0.07	-0.21	0.13
3075431	KIAA1549	0.0004	0.0426	0.31	0.23	0.26	0.30
2904877	MAPK14	0.0004	0.0426	0.92	0.84	0.81	0.78
2568968	UXS1	0.0004	0.0426	0.96	0.84	0.82	0.83
3739162	TBCD	0.0004	0.0428	1.06	1.14	1.13	1.09
2737717	NFKB1	0.0004	0.0428	1.52	1.50	1.36	1.48
2903557	RPS18	0.0004	0.0429	0.71	0.58	0.54	0.66
3031573	GIMAP5	0.0004	0.0429	0.67	0.47	0.27	0.82
2974413	MOXD1	0.0004	0.0429	0.53	0.26	0.32	0.59
3314040	BNIP3	0.0004	0.0432	0.97	0.89	0.83	0.97
2888648	RAB24	0.0004	0.0435	1.01	0.94	0.91	0.95
7385515	MALAT1	0.0004	0.0439	2.21	2.21	2.24	2.30
2375706	ATP2B4	0.0004	0.0442	0.10	0.03	0.00	0.06
2947975	RP3-377H14.5	0.0005	0.0447	0.03	-0.07	-0.06	-0.05
3315675	IFITM1	0.0005	0.0447	2.49	2.45	2.41	2.42
3101629	ADHFE1	0.0005	0.0451	-0.41	-0.34	-0.33	-0.38
2436576	C1orf43	0.0005	0.0452	1.03	0.94	0.91	0.96
3985615	TCEAL4	0.0005	0.0452	0.47	0.39	0.45	0.38
2434971	RFX5	0.0005	0.0452	1.15	1.09	0.95	1.06
2947572	TRIM27	0.0005	0.0455	1.26	1.14	1.14	1.14
3453533	DDN	0.0005	0.0462	0.68	0.68	0.74	0.74
3837895	SPHK2	0.0005	0.0471	0.77	0.72	0.77	0.77
3854349	ABHD8	0.0005	0.0471	0.82	0.81	0.86	0.85
2695648	ACAD11	0.0005	0.0472	0.36	0.26	0.11	0.20
2907066	GUCA1A	0.0005	0.0472	-0.40	-0.33	-0.30	-0.37
3220384	LPAR1	0.0005	0.0472	-0.13	-0.24	-0.19	-0.16
2768396	TEC	0.0005	0.0472	0.80	0.78	0.63	0.87
2712794	TCTEX1D2	0.0005	0.0478	0.06	0.03	0.02	0.04
2594951	ALS2CR4	0.0005	0.0478	0.10	0.00	0.01	0.05
2390259	OR2AK2	0.0005	0.0482	-0.55	-0.54	-0.45	-0.53
2745220	ZNF330	0.0005	0.0485	0.80	0.63	0.48	0.71
2705266	TNIK	0.0005	0.0486	1.14	0.93	0.89	0.98
3846238	C19orf28	0.0005	0.0494	1.11	0.92	1.06	1.00
3402571	NCAPD2	0.0005	0.0494	2.15	2.14	2.13	2.09
2877918	LOC202051	0.0005	0.0494	0.16	-0.02	0.07	0.04
2548274	STRN	0.0006	0.0496	1.07	0.93	0.93	0.95
3168102	CREB3	0.0006	0.0496	1.00	0.88	0.86	0.90
2841491	C5orf41	0.0006	0.0496	0.58	0.47	0.29	0.63

3147726	SLC25A32	0.0006	0.0496	0.55	0.48	0.45	0.52
2657665	TP63	0.0006	0.0496	0.61	0.52	0.25	0.59
3701837	MPHOSPH6	0.0006	0.0500	0.23	0.24	0.16	0.31

Supplementary Table 2. There were 210 transcripts with statistically significant Medication x Probeset interaction effects on expression after FDR step-up correction. The Affymetrix transcript ID, gene symbol, nominal p-values, FDR step-up p-value, means for each group and FC are shown in the table below. Fold change was calculated as 2^{Δ} (Risperidone - Olanzapine). (Abbreviations: MED – Medication; OLZ – Olanzapine, Risp – Risperidone).

Transcript ID	Gene Symbol			Mean(OLZ)	Mean(Risp)	FC
2934308	IGF2R	1.39 X 10-12	2.99 X 10-08	1.18	1.24	0.95
2328273	SERINC2	9.58 X 10-12	1.03 X 10-07	1.36	1.17	1.14
3011861	STEAP2	4.44 X 10-11	3.19 X 10-07	0.17	0.00	1.12
2954280	PEX6	1.95 X 10-09	1.05 X 10-05	0.76	0.76	1.00
3718555	SLFN5	6.49 X 10-09	2.80 X 10-05	0.69	1.18	0.71
3724545	ITGB3	9.46 X 10-09	3.40 X 10-05	0.69	0.42	1.20
2787459	INPP4B	1.21 X 10-08	3.49 X 10-05	-0.45	-0.49	1.03
3959451	MYH9	1.29 X 10-08	3.49 X 10-05	1.70	1.76	0.96
2395564	SLC2A5	1.64 X 10-08	3.93 X 10-05	0.86	0.76	1.07
2520429	MYO1B	3.85 X 10-08	8.30 X 10-05	-0.20	-0.39	1.14
2350489	KIAA1324	9.32 X 10-08	0.0002	0.01	-0.09	1.08
3629272	PIF1	1.16 X 10-07	0.0002	0.75	0.80	0.96
2585400	SCN9A	1.18 X 10-07	0.0002	-0.65	-0.63	0.99
2459793	C1orf96	1.27 X 10-07	0.0002	0.68	0.60	1.06
2316245	PRKCZ	1.33 X 10-07	0.0002	0.51	0.48	1.02
2949588	DOM3Z	1.63 X 10-07	0.0002	0.62	0.58	1.03
3097152	MCM4	2.01 X 10-07	0.0003	1.98	1.93	1.04
3374606	MPEG1	2.36 X 10-07	0.0003	0.76	0.84	0.95
3400034	WNK1	5.25 X 10-07	0.0006	1.21	1.26	0.96
3139580	SLCO5A1	5.58 X 10-07	0.0006	1.14	0.95	1.15
3999568	ARHGAP6	5.81 X 10-07	0.0006	0.36	0.30	1.04
3850020	ANGPTL6	6.56 X 10-07	0.0006	1.37	1.37	1.00
3132940	ANK1	9.50 X 10-07	0.0009	0.58	0.44	1.10
3442641	CD163L1	1.08 X 10-06	0.0010	-0.24	-0.29	1.04
2919767	AIM1	1.43 X 10-06	0.0012	0.97	0.81	1.12
3351975	ABCG4	1.98 X 10-06	0.0016	0.21	0.22	0.99
2709132	ETV5	2.04 X 10-06	0.0016	0.45	0.37	1.06
3252382	MYST4	2.08 X 10-06	0.0016	0.64	0.59	1.04
3263743	DUSP5	2.17 X 10-06	0.0016	2.12	2.06	1.04
3132016	FGFR1	2.18 X 10-06	0.0016	0.51	0.37	1.10
2857204	PPAP2A	2.37 X 10-06	0.0016	0.02	-0.01	1.02

2474322	C2orf28	2.42 X 10-06	0.0016	1.25	1.18	1.05
2642543	NUDT16P	3.06 X 10-06	0.0020	0.90	0.75	1.11
2452691	SLC41A1	3.29 X 10-06	0.0021	0.63	0.55	1.06
2427500	HBXIP	4.08 X 10-06	0.0025	0.72	0.58	1.10
2775965	COQ2	4.18 X 10-06	0.0025	1.06	1.03	1.02
2482505	SPTBN1	5.18 X 10-06	0.0030	1.31	1.32	0.99
2332528	RIMKLA	6.36 X 10-06	0.0035	1.11	0.96	1.11
3030285	CUL1	6.47 X 10-06	0.0035	0.91	0.86	1.03
2644702	FAIM	6.66 X 10-06	0.0035	0.03	-0.05	1.06
3822074	RAD23A	6.77 X 10-06	0.0035	1.14	1.30	0.90
2544781	DTNB	6.92 X 10-06	0.0035	0.14	0.14	1.00
2835662	MST150	7.09 X 10-06	0.0035	1.00	0.93	1.05
2600155	DNPEP	7.15 X 10-06	0.0035	0.82	0.80	1.02
2655555	VWA5B2	7.28 X 10-06	0.0035	0.47	0.57	0.93
3871730	ZNF787	7.63 X 10-06	0.0036	1.21	1.23	0.98
2333678	B4GALT2	8.71 X 10-06	0.0040	1.22	1.20	1.01
3103818	HNF4G	1.04 X 10-05	0.0047	0.05	-0.03	1.06
2396781	MAD2L2	1.13 X 10-05	0.0050	1.24	1.23	1.00
3757433	ACLY	1.17 X 10-05	0.0050	1.88	1.88	1.00
2413115	SLC1A7	1.23 X 10-05	0.0050	0.29	0.32	0.97
3788097	MAPK4	1.23 X 10-05	0.0050	0.26	0.28	0.99
2708817	TMEM41A	1.24 X 10-05	0.0050	0.69	0.65	1.03
3855324	COPE	1.37 X 10-05	0.0055	1.16	1.11	1.03
2437307	SCAMP3	1.46 X 10-05	0.0057	0.93	0.84	1.07
3005363	ASL	1.67 X 10-05	0.0064	0.81	0.80	1.01
2711751	TMEM44	1.75 X 10-05	0.0066	0.32	0.33	0.99
3817984	SAFB	1.89 X 10-05	0.0070	0.84	1.01	0.88
2333481	ST3GAL3	1.95 X 10-05	0.0071	0.52	0.50	1.02
3339812	ARHGEF17	1.97 X 10-05	0.0071	0.57	0.47	1.07
3333169	C11orf9	2.05 X 10-05	0.0073	0.57	0.50	1.05
2882098	SPARC	2.09 X 10-05	0.0073	1.09	1.05	1.03
2915828	NT5E	2.29 X 10-05	0.0078	0.09	-0.10	1.13
3040518	MACC1	2.35 X 10-05	0.0079	0.44	0.27	1.12
3079722	CRYGN	2.65 X 10-05	0.0087	0.07	0.10	0.98
3235255	ECHDC3	2.66 X 10-05	0.0087	0.55	0.46	1.06
2330133	EIF2C3	2.84 X 10-05	0.0091	0.41	0.35	1.04
2795819	DCTD	2.93 X 10-05	0.0092	1.01	0.96	1.04
2649824	SCHIP1	2.94 X 10-05	0.0092	-0.01	-0.03	1.02
3230594	CLIC3	3.01 X 10-05	0.0093	0.77	0.84	0.96
3847252	SAFB2	3.09 X 10-05	0.0094	0.71	0.87	0.90
3512769	ZC3H13	3.14 X 10-05	0.0094	0.17	0.36	0.88
2436283	DENND4B	3.20 X 10-05	0.0095	1.18	1.16	1.01
3402757	LAG3	3.28 X 10-05	0.0096	0.73	0.67	1.05

3074039	SLC35B4	3.50 X 10-05	0.0100	0.75	0.66	1.06
2440018	WDR42A	3.51 X 10-05	0.0100	0.90	0.84	1.05
3510755	LOC646982	3.69 X 10-05	0.0102	-0.38	-0.37	0.99
2656971	RTP1	3.70 X 10-05	0.0102	0.02	0.03	0.99
3628104	FAM148B	3.77 X 10-05	0.0103	-0.36	-0.39	1.02
2402395	LOC646471	3.81 X 10-05	0.0103	0.05	-0.01	1.05
2813364	SLC30A5	3.92 X 10-05	0.0105	0.99	0.87	1.09
2391302	ACAP3	4.04 X 10-05	0.0106	0.84	0.87	0.98
2933650	TMEM181	4.18 X 10-05	0.0109	0.65	0.57	1.06
3909035	SPATA2	4.42 X 10-05	0.0113	0.94	1.02	0.95
3688424	C16orf58	4.64 X 10-05	0.0118	1.12	1.06	1.04
2828520	SLC22A5	4.77 X 10-05	0.0120	0.05	0.04	1.01
2527672	PNKD	4.83 X 10-05	0.0120	0.47	0.43	1.02
3627422	RORA	4.89 X 10-05	0.0120	0.34	0.27	1.05
2654394	FXR1	5.10 X 10-05	0.0124	0.32	0.43	0.93
2700828	SIAH2	5.41 X 10-05	0.0130	1.45	1.43	1.02
2903782	ITPR3	5.60 X 10-05	0.0133	1.09	1.09	1.00
3884612	SNHG11	5.72 X 10-05	0.0134	0.61	0.58	1.02
2886679	KCNMB1	6.00 X 10-05	0.0139	0.39	0.36	1.02
2724094	FAM114A1	6.50 X 10-05	0.0149	-0.06	-0.13	1.05
3560403	EGLN3	6.56 X 10-05	0.0149	0.56	0.45	1.07
2529421	SGPP2	7.19 X 10-05	0.0162	1.87	1.75	1.09
3676356	ZNF598	7.43 X 10-05	0.0165	1.11	1.16	0.97
3868905	ATPBD3	7.88 X 10-05	0.0173	0.98	1.05	0.96
3476741	UBC	8.25 X 10-05	0.0180	1.14	1.44	0.81
3883441	SPAG4	8.59 X 10-05	0.0185	0.65	0.62	1.02
4001654	GPR64	8.66 X 10-05	0.0185	-0.33	-0.51	1.13
2403027	MAP3K6	9.02 X 10-05	0.0191	0.40	0.46	0.96
2417095	SLC35D1	9.10 X 10-05	0.0191	0.91	0.74	1.13
2960010	LMBRD1	9.60 X 10-05	0.0199	0.51	0.42	1.06
2550122	COX7A2L	9.96 X 10-05	0.0204	0.54	0.51	1.02
3056226	STX1A	0.0001	0.0204	0.38	0.43	0.97
3168700	ZCCHC7	0.000103	0.0206	0.07	0.03	1.02
2383999	OBSCN	0.000103	0.0206	0.27	0.33	0.96
2828479	SLC22A4	0.000105	0.0208	-0.30	-0.25	0.96
3737697	BAIAP2	0.000112	0.0220	0.25	0.28	0.98
2776088	FAM175A	0.000121	0.0235	-0.38	-0.39	1.01
3684039	CRYM	0.000124	0.0238	0.16	0.07	1.07
2324097	PINK1	0.000128	0.0242	0.48	0.47	1.01
2928690	AIG1	0.000128	0.0242	0.07	0.02	1.04
2676182	NT5DC2	0.000129	0.0242	1.10	1.06	1.03
3283991	KIF5B	0.000137	0.0253	0.49	0.65	0.90
3759587	PLCD3	0.000137	0.0253	0.57	0.60	0.98

2754371	CCDC111	0.00014	0.0256	-0.08	-0.26	1.13
2879105	SPRY4	0.000143	0.0260	0.48	0.42	1.04
2326448	SH3BGL3	0.000146	0.0261	1.40	1.37	1.02
2793221	NEK1	0.000147	0.0261	-0.10	-0.18	1.06
3527965		0.000149	0.0261	-0.26	-0.10	0.89
3608113	IQGAP1	0.00015	0.0261	1.14	1.25	0.93
2667181	AZI2	0.00015	0.0261	-0.04	-0.13	1.06
2890517	RASGEF1C	0.000156	0.0267	0.38	0.48	0.94
3963921	LOC642648	0.000156	0.0267	0.13	0.06	1.05
3089597	KIAA1967	0.000158	0.0268	1.23	1.21	1.01
2667024	EOMES	0.000159	0.0268	0.23	0.37	0.91
3064006	C7orf47	0.00016	0.0268	1.47	1.49	0.99
3872969	ZBTB45	0.000161	0.0268	0.80	0.85	0.97
2323603	PQLC2	0.000164	0.0270	0.76	0.80	0.97
3282974	SVIL	0.000168	0.0274	-0.12	-0.15	1.02
2320581	PLOD1	0.000169	0.0274	1.45	1.38	1.05
2432607	GNRHR2	0.000171	0.0275	0.30	0.34	0.97
3848525	CLEC4G	0.000173	0.0277	0.81	0.79	1.02
2643095	BFSP2	0.00018	0.0285	0.19	0.19	1.00
2831284	UBE2D2	0.000182	0.0287	1.49	1.35	1.11
2365496	POGK	0.000187	0.0288	1.26	1.18	1.06
2954771	GTPBP2	0.000188	0.0288	0.94	0.89	1.04
2360158	HAX1	0.000188	0.0288	0.43	0.41	1.01
3122721	DEFA4	0.000189	0.0288	-0.29	-0.23	0.96
2827057	GRAMD3	0.000191	0.0288	0.25	0.16	1.06
2545144	GPR113	0.000191	0.0288	0.06	0.08	0.99
2650066	IL12A	0.000194	0.0290	0.17	0.07	1.07
3830320	MAG	0.000198	0.0292	0.05	0.10	0.96
3850929	CCDC151	0.000199	0.0292	0.15	0.17	0.98
3733590	SOX9	0.000199	0.0292	1.39	1.32	1.06
2610241	FANCD2	0.000206	0.0300	0.67	0.65	1.01
2556185	UGP2	0.000212	0.0307	0.46	0.43	1.02
2991860	ITGB8	0.000223	0.0321	0.12	-0.07	1.15
2949524	EHMT2	0.000225	0.0321	1.33	1.31	1.02
2356142	LIX1L	0.000228	0.0324	1.53	1.50	1.02
2566383	C2orf64	0.00023	0.0324	0.58	0.51	1.05
3972427	HMGA1	0.000233	0.0327	1.07	0.95	1.09
2550175	KCNG3	0.000241	0.0333	-0.05	-0.02	0.98
3816424	SPPL2B	0.000242	0.0333	0.95	0.94	1.00
2545869	IFT172	0.000242	0.0333	0.22	0.17	1.04
2661992	OXTR	0.000247	0.0338	0.56	0.44	1.09
3168032	C9orf100	0.000253	0.0343	1.15	1.16	0.99
3328349	ACCS	0.000254	0.0343	0.30	0.23	1.05

3056131	TBL2	0.000259	0.0346	0.94	0.89	1.04
2474527	NRBP1	0.000259	0.0346	1.59	1.59	1.00
3944826	SH3BP1	0.000268	0.0354	0.91	0.98	0.95
3204496	PIGO	0.000269	0.0354	0.69	0.67	1.01
3268333	HTRA1	0.000278	0.0364	1.00	1.07	0.95
3755323	PCGF2	0.00028	0.0364	1.01	0.95	1.04
2575196	SAP130	0.000285	0.0367	1.18	1.14	1.03
2438207	MEF2D	0.000287	0.0367	1.75	1.72	1.02
2616166	CRTAP	0.000288	0.0367	0.98	0.94	1.03
3762443	C17orf73	0.0003	0.0381	-0.17	-0.15	0.99
2817576	THBS4	0.000305	0.0385	0.00	0.01	1.00
2842911	FGFR4	0.000317	0.0397	0.54	0.54	1.00
3360505	OR51B2	0.000318	0.0397	-0.55	-0.47	0.94
3378732	POLD4	0.000324	0.0402	1.16	1.09	1.05
3941848	EMID1	0.000331	0.0408	0.74	0.67	1.05
3708644	FGF11	0.000337	0.0413	0.79	0.73	1.04
2949622	TNXB	0.000351	0.0427	0.65	0.69	0.97
2376799	IKBKE	0.000352	0.0427	0.88	0.86	1.01
2553282	PSME4	0.000355	0.0428	0.93	0.84	1.07
2592268	STAT1	0.000363	0.0431	2.03	1.95	1.05
3761054	COPZ2	0.000364	0.0431	0.44	0.47	0.98
3194470	EGFL7	0.000365	0.0431	0.69	0.74	0.97
2452187	LRRN2	0.000366	0.0431	0.39	0.40	0.99
2996321	BBS9	0.000373	0.0432	-0.13	-0.18	1.04
3279540	C1QL3	0.000377	0.0432	0.78	0.80	0.99
3085270	TNKS	0.000378	0.0432	0.51	0.42	1.06
2437273	C1orf2	0.000379	0.0432	1.12	1.13	0.99
2350922	GSTM4	0.00038	0.0432	1.02	0.85	1.13
3063463	CYP3A7	0.00038	0.0432	-0.82	-0.86	1.03
3723378	FMNL1	0.000382	0.0432	1.02	1.09	0.95
3704376	FAM38A	0.000383	0.0432	1.18	1.20	0.98
3000953	UPP1	0.000388	0.0436	0.35	0.32	1.02
3597914	SNX22	0.000391	0.0437	0.77	0.76	1.01
2714465	FGFRL1	0.0004	0.0445	0.67	0.73	0.96
3845229	PCSK4	0.000402	0.0445	0.49	0.52	0.98
2950668	DAXX	0.000405	0.0446	0.56	0.64	0.94
2330393	C1orf113	0.000407	0.0446	0.77	0.79	0.99
3015147	ZKSCAN1	0.00041	0.0447	0.97	0.88	1.06
3645626	IL32	0.000416	0.0449	1.60	1.55	1.04
2438504	MRPL24	0.000416	0.0449	1.12	1.08	1.02
3668834	ZNRF1	0.000425	0.0456	0.76	0.75	1.00
3434490	CABP1	0.000428	0.0457	0.51	0.43	1.06
3101153	BHLHE22	0.000432	0.0459	1.20	1.05	1.11

2754673	ANKRD37	0.000434	0.0459	0.68	0.60	1.06
2708429	CAMK2N2	0.000454	0.0477	0.77	0.93	0.90
2545509	PREB	0.000459	0.0481	1.22	1.21	1.01
3571347	NUMB	0.000469	0.0489	0.81	0.75	1.04
3368304	WT1	0.000481	0.0499	0.50	0.53	0.98
2675925	DUSP7	0.000484	0.0499	1.26	1.21	1.04
2420832	DDAH1	0.000486	0.0499	-0.10	-0.06	0.97

Supplementary Table 3. Input variables for Ingenuity Pathway Analysis of the 200 genes most significantly associated with treatment response x probeset effects on expression.

ADAM23	CST3	KIAA0284	PXN
ADAM6	CXCL10	KIF24	RBCK1
ADAP1	CYLC2	KIT	RECQL4
AFF3	DBF4B	KRT82	RIN3
AGRN	DDX54	KRT83	RNF126P1
ANKRD13D	DENND1A	LAD1	RNF26
ANO7	DENND2D	LGALS14	RNF31
AP1B1	DUOX1	LINGO1	RNPEPL1
ARHGAP8	DUS1L	LMO7	ROBO1
ARHGEF11	DZIP1	LOC100129697	RPL35
ARID3A	EDNRB	LOC26010	SAP130
ASNA1	EIF1	LOC441233	SCARF1
ATP13A1	EMD	LOC645249	SEMA4B
ATP6VOE2	ERAL1	LPIN1	SESN3
BMP6	FAM120A	LRP5	SGK3
BPESC1	FAM173A	LRRC15	SHROOM3
BPNT1	FAM86A	LRRC61	SLC22A25
BRF1	FBL	LRWD1	SLC26A4
BSPRY	FEZ1	LYPLA2	SLC26A9
BTG2	FLII	MARVELD1	SLC2A5
C11orf24	FLJ32065	MATN1	SLC5A2
C16orf48	FLJ39582	MICAL2	SLC6A2
C16orf67	FLJ45513	MMP10	SLC7A6OS
C1orf54	FNBP1L	MRGPRF	SORCS3
C21orf129	FOLH1	MRPL49	SPO11
C21orf56	FOXL1	MSH5	SQRDL
C22orf37	FOXP3	NDRG4	SRF
C2orf24	FOXR2	NDUFA13	SRRT
C2orf39	FYN	NEB	SUSD5
C5orf35	GAP43	NETO1	TAF6
C6orf227	GAR1	NEUROD2	TBX21
C7orf20	GAS2	NLRP11	TCL6
CC2D1A	GCLM	NMUR2	TECPR1
CCND3	GINS2	NOTCH1	TMEM125
CCRL1	GJB5	NT5DC2	TMEM156
CCT5	GLIS3	PHC1	TMEM51
CD276	GPR124	PHLDA2	TP73
CDH29	GPX7	PKN1	TUFM

CDX4	HEJ1	PLCD1	UBE2F
CHRDL1	HEPHL1	PLCH2	UBE2L6
CLSTN2	HTRA4	PLEKHB2	UCK2
CLTB	IDH2	PMS2L3	USP31
CPPED1	IL18	PPM1E	UST
CPS1	IL22	PRDM9	VEGFB
CPSF4L	IRF2BP1	PRELID2	VGFB
CREB5	ISG20L2	PRKCD	WDR44
CRELD2	KANK2	PRPF6	WNT6
CRHR2	KCNE4	PRSS16	ZBTB8A
CSF1	KCNMB1	PTK2	ZNF514
CSN1S1	KCTD14	PUM1	ZNFX1

Supplementary Table 4. Input variables for Ingenuity Pathway Analysis of the 200 genes most significantly associated with treatment response x medication x probeset effects on expression.

ADAM19	DPM2	LRCH4	SCLT1
ADAM22	DPYSL2	LRIG3	SCOC
ADCY1	DSG2	LST1	SDCCAG8
ADIPOR2	EIF4G3	LYN	SEC24C
ANKDD1A	EMILIN2	MCCC1	SETD2
APOBEC3H	EMR1	MCOLN2	SFMBT1
AQR	ENOPH1	METTL11A	SGK1
ARAP2	EPHX2	MRPL21	SIGLEC10
ARHGAP15	ETV3	MRPS27	SLC20A1
ARHGAP26	FAIM3	MTX2	SLC25A24
ARID5B	FAM102A	MYO1E	SLC47A1
ARMCX3	FAM135A	NCK2	SLC6A9
BAT3	FARS2	NT5DC3	SMARCB1
BCAT1	FBXO22	NUSAP1	SMG5
BCR	FRMPD2	OBFC1	SNX10
BHLHE40	FSD1	OR2A2	SOCS3
BMF	FYB	ORAI1	SPARC
BPHL	GALNT10	PAFAH1B3	SPATA20
C10orf137	GDAP1	PARP8	SPSB3
C1orf21	GIMAP6	PASK	SQSTM1
C2orf28	GLG1	PDGFRA	STAMBP
C2orf3	GMPPA	PDK1	TANC1
C2orf34	GNAI3	PECI	TGFBRAP1
C3orf14	GNPDA2	PHACTR1	THUMPD3
C5orf37	GORASP2	PIK3C2B	TIAM2
CABC1	GPR160	PIK3R5	TMEM181
CALML4	GPR39	PKP2	TMEM69
CAMK4	GSTA4	PLA2R1	TNFSF14
CARM1	GZMK	POLD4	TRAF5
CC2D2A	HCK	POLR3D	TRERF1
CCNYL1	HDAC9	POLR3E	TRIM67
CD6	HLA-B	PPAP2A	TRMT12
CDH1	HLA-DQB2	PPAPDC3	TTC15
CEP192	HPS6	PPM1G	TXNDC5
CHRN2	IARS	PPT2	UBAP2L
CLASP1	IP6K1	PRKAG2	UBC

CLOCK	IRAK1BP1	PRKCZ	UBE2B
CMTM3	ISL2	PRPF38A	UTP11L
CNTD2	ITGB3	PRRC1	VAV1
COMMD8	JAKMIP1	PSME4	VHL
COPB2	KCNMB1	PSMG1	VPS13B
CREB5	KCNN4	PTPRS	WARS2
CYB5R2	KIAA0922	PYGL	WNK2
CYBB	KLHL21	RAD50	ZBTB8A
DAPK1	KLHL24	RASA1	ZER1
DCBLD2	KLK2	RASSF3	ZNF12
DCLK3	KPNA6	RER1	ZNF394
DDR2	LGTN	RFC1	ZNF45
DFNA5	LMO7	RFTN1	ZNF598
DIP2B	LOC388849	SCG2	ZNF793