

Supplementary table 1: Strong correlations between gene expression and methylation located in the same gene

Spearman Coef (r^2)			Transcript					CpG methylation			
r^2	Categ	Type	Probeset	Gene	Chr	Start	End	Name	Gene	MapInfo	CPG_cat
-0.76	neg	cis-acting	7914003	C1orf172	1	27276048	27286901	cg19125999	C1orf172	27287282	CpG_shore
-0.71	neg	cis-acting	7914003	C1orf172	1	27276048	27286901	cg21921474	C1orf172	27287181	CpG_island
-0.70	neg	cis-acting	7920271	S100A4	1	153516098	153518282	cg24691453	S100A4	153518384	CpG_shore
-0.74	neg	cis-acting	7923406	PTPN7	1	202116143	202129751	cg18384097	PTPN7	202129566	Out_CpG_isl_shore
-0.70	neg	cis-acting	7909164	CTSE	1	206317459	206332103	cg04457794	CTSE	206317654	CpG_shore
0.72	pos	cis-acting	8054281	LONRF2	2	100889754	100939195	cg12232463	LONRF2	100926650	CpG_shore
-0.79	neg	cis-acting	8044584	PSD4	2	113931560	113960676	cg13273136	PSD4	113931565	CpG_shore
-0.70	neg	cis-acting	8078252	UBE2E2	3	23244784	23632296	cg19803671	UBE2E2	23245422	CpG_island
-0.78	neg	cis-acting	8079124	ZNF662	3	42947402	42960825	cg26523005	ZNF662	42947267	Out_CpG_isl_shore
-0.70	neg	cis-acting	8092654	RPL39L	3	186838741	186857263	cg07693270	RPL39L	186856928	CpG_island
-0.72	neg	cis-acting	8099144	EVC2	4	5564147	5711275	cg15305511	EVC2	5712676	CpG_island
0.83	pos	cis-acting	8111019	DNAH5	5	13690437	13944589	cg14880800	DNAH5	13945990	CpG_shore
0.72	pos	cis-acting	8111677	LIFR	5	38475065	38595507	cg01796228	LIFR	38596220	CpG_island
-0.71	neg	cis-acting	8109049	SPINK7	5	147691990	147695479	cg19404190	SPINK7	147692173	CpG_shore

-0.71	neg	cis-acting	8116658	FAM50B	6	3849632	3851550	cg03202897	FAM50B	3849688	CpG_island
-0.71	neg	cis-acting	8117422	HIST1H4F	6	26240654	26241021	cg05159188	HIST1H4F	26240579	CpG_island
-0.73	neg	cis-acting	8179322	HSPA1A	6	31783291	31785717	cg00929855	HSPA1A	31783364	CpG_island
-0.74	neg	cis-acting	8128007	GJB7	6	87992697	88038996	cg23588759	GJB7	88039288	CpG_shore
0.72	pos	cis-acting	8128043	CNR1	6	88849587	88875767	cg23276695	CNR1	88855716	CpG_shore
-0.71	neg	cis-acting	8138749	HOXA9	7	27202058	27205149	cg01354473	HOXA9	27204803	CpG_island
-0.75	neg	cis-acting	8138749	HOXA9	7	27202058	27205149	cg07778029	HOXA9	27205114	CpG_island
-0.73	neg	cis-acting	8138749	HOXA9	7	27202058	27205149	cg25047280	HOXA9	27205479	CpG_island
-0.70	neg	cis-acting	8138749	HOXA9	7	27202058	27205149	cg26521404	HOXA9	27204981	CpG_island
-0.73	neg	cis-acting	8138765	HOXA11	7	27220777	27224835	cg17950095	HOXA11	27224700	CpG_island
0.71	pos	cis-acting	8135378	PRKAR2B	7	106685178	106802255	cg21250978	PRKAR2B	106684541	Out_CpG_isl_shore
-0.82	neg	cis-acting	8146687	ADHFE1	8	67344718	67381042	cg01988129	ADHFE1	67344936	CpG_island
-0.78	neg	cis-acting	8146687	ADHFE1	8	67344718	67381042	cg08090772	ADHFE1	67344640	CpG_island
0.70	pos	cis-acting	8146986	HNF4G	8	76452203	76479059	cg24512303	HNF4G	76452152	Out_CpG_isl_shore
-0.70	neg	cis-acting	8153359	LY6D	8	143866298	143868008	cg05800321	LY6D	143867799	CpG_island
0.71	pos	cis-acting	8160441	CDKN2A	9	21967752	21994490	cg07752420	CDKN2A	21968681	CpG_island

-0.74	neg	cis-acting	7934842	MMRN2	10	88695300	88717425	cg22545356	MMRN2	88716659	CpG_shore
-0.71	neg	cis-acting	7930208	INA	10	105036920	105050106	cg23642747	INA	105036645	CpG_island
-0.71	neg	cis-acting	7936144	COL17A1	10	105791048	105845638	cg13448625	COL17A1	105845238	Out_CpG_isl_shore
-0.76	neg	cis-acting	7937728	TNNI2	11	1860233	1862910	cg14672680	TNNI2	1859838	CpG_island
-0.72	neg	cis-acting	7944179	CD3E	11	118175295	118186889	cg24612198	CD3E	118175631	CpG_shore
-0.78	neg	cis-acting	7963289	BIN2	12	51674823	51717938	cg10590292	BIN2	51717674	CpG_island
0.79	pos	cis-acting	7965964	SLC41A2	12	105197276	105322472	cg23855818	SLC41A2	105323396	CpG_shore
0.75	pos	cis-acting	7965964	SLC41A2	12	105197276	105322472	cg27149093	SLC41A2	105322376	Out_CpG_isl_shore
0.72	pos	cis-acting	7982187	APBA2	15	29213840	29410514	cg20840847	APBA2	29213626	OutCpG_isl_shore
-0.72	neg	cis-acting	8000799	GDPD3	16	30116132	30124878	cg13543096	GDPD3	30125400	CpG_island
0.79	pos	cis-acting	8001337	ZNF423	16	49524522	49860918	cg02238504	ZNF423	49861375	Out_CpG_isl_shore
0.73	pos	cis-acting	8001337	ZNF423	16	49524522	49860918	cg16449972	ZNF423	49861382	CpG_shore
0.71	pos	cis-acting	8011415	P2RX5	17	3593580	3599583	cg13246592	P2RX5	3600461	CpG_island
-0.71	neg	cis-acting	8019622	TMEM106A	17	41363894	41371589	cg04482110	TMEM106A	41364121	CpG_island
-0.72	neg	cis-acting	8016438	HOXB2	17	46620021	46622393	cg25882366	HOXB2	46622037	CpG_island
0.71	pos	cis-acting	8020164	GNAL	18	11689136	11883144	cg14371329	GNAL	11688011	CpG_island

-0.77	neg	cis-acting	8024527	ZNF556	19	2867333	2878501	cg19636861	ZNF556	2867753	CpG_island
-0.78	neg	cis-acting	8035304	BST2	19	17513756	17516384	cg16363586	BST2	17516329	CpG_island
-0.73	neg	cis-acting	8036710	GMFG	19	39819000	39826726	cg05607401	GMFG	39826693	CpG_shore
-0.70	neg	cis-acting	8037315	PHLDB3	19	43979256	44008985	cg15664905	PHLDB3	44009429	CpG_shore
-0.73	neg	cis-acting	8039593	ZNF667	19	56950694	56988770	cg03289872	ZNF667	56989102	CpG_island
-0.74	neg	cis-acting	8039593	ZNF667	19	56950694	56988770	cg05508084	ZNF667	56988398	CpG_island
-0.80	neg	cis-acting	8068383	CLIC6	21	36041688	36090519	cg10722799	CLIC6	36041699	CpG_island
-0.72	neg	cis-acting	8068383	CLIC6	21	36041688	36090519	cg18074297	CLIC6	36041612	CpG_island