

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE108088	Pineoblastoma	1	U133plus2 CEL files	RefRMA
GSE99961	Pineoblastoma	1	U133plus2 CEL files	RefRMA
GSE10178	NK and T cells	2	U133plus2 CEL files	RefRMA
GSE10317	Parathyroid gland	2	U133plus2 CEL files	RefRMA
GSE32197	Brain arachnoidal tissue	2	U133plus2 CEL files	RefRMA
GSE35373	PrCa stromal cells	2	U133plus2 CEL files	RefRMA
GSE38091	Osteoblast cocultures	2	U133plus2 CEL files	RefRMA
GSE12034	Oocytes	3	U133plus2 CEL files	RefRMA
GSE26213	Skin scars	3	U133plus2 CEL files	RefRMA
GSE46801	Primary melanocytes	3	U133plus2 CEL files	RefRMA
GSE59125	Schwann cells	3	U133plus2 CEL files	RefRMA
GSE11954	Stellate cells	4	U133plus2 CEL files	RefRMA
GSE15464	HUVEC	4	U133plus2 CEL files	RefRMA
GSE17340	Seminal vesicle	4	U133plus2 CEL files	RefRMA
GSE22045	T cells	4	U133plus2 CEL files	RefRMA
GSE25320	Mast Cells	4	U133plus2 CEL files	RefRMA
GSE33846	Hepatocytes	4	U133plus2 CEL files	RefRMA
GSE40831	Megakaryocytes cultured	4	U133plus2 CEL files	RefRMA
GSE40942	Cartilage	4	U133plus2 CEL files	RefRMA
GSE54765	Brain pericytes	4	U133plus2 CEL files	RefRMA
GSE61353	Melanocytes	4	U133plus2 CEL files	RefRMA
GSE63129	Anergic T cells	4	U133plus2 CEL files	RefRMA
GSE8059	NKcells stimulated	4	U133plus2 CEL files	RefRMA
GSE28504	Placenta trophoctoderm	5	U133plus2 CEL files	RefRMA
GSE30522	Bladder cells	5	U133plus2 CEL files	RefRMA
GSE38312	Melanocytes	5	U133plus2 CEL files	RefRMA
GSE8694	Odontoblasts	5	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE18338	Bone growth plates	6	U133plus2 CEL files	RefRMA
GSE18565	Monocytes	6	U133plus2 CEL files	RefRMA
GSE20986	Endothelium	6	U133plus2 CEL files	RefRMA
GSE21569	Hair follicle keratinocytes	6	U133plus2 CEL files	RefRMA
GSE26156	Thymocytes	6	U133plus2 CEL files	RefRMA
GSE29133	Alveolar type II cells	6	U133plus2 CEL files	RefRMA
GSE33025	Embryo	6	U133plus2 CEL files	RefRMA
GSE43923	Cartilage	6	U133plus2 CEL files	RefRMA
GSE83920	Mast cells	6	U133plus2 CEL files	RefRMA
GSE35932	HUVEC hypoxia	7	U133plus2 CEL files	RefRMA
GSE38010	MS samples	7	U133plus2 CEL files	RefRMA
GSE40367	Hemangioma	7	U133plus2 CEL files	RefRMA
GSE44227	Muscle cells	7	U133plus2 CEL files	RefRMA
GSE57520	Spleen	7	U133plus2 CEL files	RefRMA
GSE15271	Germinal center B cells	8	U133plus2 CEL files	RefRMA
GSE15543	Pancreas islets	8	U133plus2 CEL files	RefRMA
GSE16836	Monocytes	8	U133plus2 CEL files	RefRMA
GSE17014	Skin celltypes	8	U133plus2 CEL files	RefRMA
GSE18997	Testis	8	U133plus2 CEL files	RefRMA
GSE19339	Thrombi	8	U133plus2 CEL files	RefRMA
GSE21858	Fetal brain	8	U133plus2 CEL files	RefRMA
GSE26928	CD4 T cells	8	U133plus2 CEL files	RefRMA
GSE29435	Endometrial cancer	8	U133plus2 CEL files	RefRMA
GSE38396	Lymphatic microvasculature	8	U133plus2 CEL files	RefRMA
GSE38780	Eye muscles	8	U133plus2 CEL files	RefRMA
GSE40438	Motor neurons	8	U133plus2 CEL files	RefRMA
GSE50175	Th1 Th1Th17	8	U133plus2 CEL files	RefRMA

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GEO / ArrayExpress ID	Description	Samples	Data	Processing
E-MEXP-1225	Ileum	9	U133plus2 CEL files	RefRMA
E-MTAB-203	Pancreatic islets	9	U133plus2 CEL files	RefRMA
GSE19722	Lung basal cells	9	U133plus2 CEL files	RefRMA
GSE20499	Uterine NK cells	9	U133plus2 CEL files	RefRMA
GSE21774	NK cells	9	U133plus2 CEL files	RefRMA
GSE34515	monocytes dendritic cells	9	U133plus2 CEL files	RefRMA
GSE35685	Bone marrow	9	U133plus2 CEL files	RefRMA
GSE40220	Digestive tract mucosa	9	U133plus2 CEL files	RefRMA
GSE40709	Pancreas islets	9	U133plus2 CEL files	RefRMA
GSE48101	Beta cells	9	U133plus2 CEL files	RefRMA
GSE51246	Choroidal endothelium	9	U133plus2 CEL files	RefRMA
GSE7808	Epididymis	9	U133plus2 CEL files	RefRMA
GSE9160	Growth plate chondrocytes	9	U133plus2 CEL files	RefRMA
E-MEXP-3034	Preplasmablasts	10	U133plus2 CEL files	RefRMA
GSE108290	Sebaceous glands	10	U133plus2 CEL files	RefRMA
GSE19533	Diaphragm	10	U133plus2 CEL files	RefRMA
GSE20589	Motor neurons	10	U133plus2 CEL files	RefRMA
GSE21327	Cultured podocytes	10	U133plus2 CEL files	RefRMA
GSE22501	Tregs	10	U133plus2 CEL files	RefRMA
GSE25861	Placenta endothelium	10	U133plus2 CEL files	RefRMA
GSE26890	T cells	10	U133plus2 CEL files	RefRMA
GSE29368	Oligodendrocyte	10	U133plus2 CEL files	RefRMA
GSE34166	Bile duct	10	U133plus2 CEL files	RefRMA
GSE34526	Ovary granulosa cells polycystic	10	U133plus2 CEL files	RefRMA
GSE39132	Centroblasts	10	U133plus2 CEL files	RefRMA
GSE48120	Skin	10	U133plus2 CEL files	RefRMA
GSE64805	CD57+ PD1- CD4 T cells	10	U133plus2 CEL files	RefRMA

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GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE6565	Fetal cartilage	10	U133plus2 CEL files	RefRMA
GSE77839	Interstitial cells of Cajal	10	U133plus2 CEL files	RefRMA
GSE10038	Macrophages	11	U133plus2 CEL files	RefRMA
GSE31257	Colon cell types	11	U133plus2 CEL files	RefRMA
GSE38190	Eye	11	U133plus2 CEL files	RefRMA
GSE41571	Artheroplaque macrophages	11	U133plus2 CEL files	RefRMA
GSE49938	HSC cultured OR NOT	11	U133plus2 CEL files	RefRMA
GSE77978	Milk	11	U133plus2 CEL files	RefRMA
GSE12345	Pleura	12	U133plus2 CEL files	RefRMA
GSE12366	B-cell populations	12	U133plus2 CEL files	RefRMA
GSE12621	Eye embryonic retina	12	U133plus2 CEL files	RefRMA
GSE13738	CD4 Tcell activation	12	U133plus2 CEL files	RefRMA
GSE14103	HCT116 synchronized	12	U133plus2 CEL files	RefRMA
GSE17639	Reticulocytes	12	U133plus2 CEL files	RefRMA
GSE23618	Dendritic cells	12	U133plus2 CEL files	RefRMA
GSE25119	T cells	12	U133plus2 CEL files	RefRMA
GSE27291	gamma delta T cells	12	U133plus2 CEL files	RefRMA
GSE29625	Embryonic stem cells	12	U133plus2 CEL files	RefRMA
GSE41909	Tcell differentiation	12	U133plus2 CEL files	RefRMA
GSE45535	MedImmune Blood cell populations	12	U133plus2 CEL files	RefRMA
GSE46493	Cell lines under stress	12	U133plus2 CEL files	RefRMA
GSE5850	Oocytes	12	U133plus2 CEL files	RefRMA
GSE64985	Chondrocytes	12	U133plus2 CEL files	RefRMA
GSE66107	Podocytes	12	U133plus2 CEL files	RefRMA
GSE66426	Platelet	12	U133plus2 CEL files	RefRMA
GSE9894	Bone marrow stem cells	12	U133plus2 CEL files	RefRMA
GSE45270	Colon polyps	13	U133plus2 CEL files	RefRMA

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GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE54316	Fetal stem cells	13	U133plus2 CEL files	RefRMA
GSE7224	Tonsil and oral epithelia	13	U133plus2 CEL files	RefRMA
E-MEXP-3410	Exhausted T cells	14	U133plus2 CEL files	RefRMA
GSE12108	Infected Monocytes	14	U133plus2 CEL files	RefRMA
GSE16024	MALT Lymphoma	14	U133plus2 CEL files	RefRMA
GSE17186	B cells	14	U133plus2 CEL files	RefRMA
GSE40885	LPS in vivo macrophages	14	U133plus2 CEL files	RefRMA
GSE42363	Esophageal cancer	14	U133plus2 CEL files	RefRMA
GSE66384	Tfh cells	14	U133plus2 CEL files	RefRMA
E-MTAB-2244	Splenic B cells	15	U133plus2 CEL files	RefRMA
GSE44126	memory T cells	15	U133plus2 CEL files	RefRMA
GSE50161	BrainCa	15	U133plus2 CEL files	RefRMA
GSE51472	Heart valves	15	U133plus2 CEL files	RefRMA
GSE51812	Chondrocytes	15	U133plus2 CEL files	RefRMA
E-MEXP-2936	Disc	16	U133plus2 CEL files	RefRMA
E-TABM-40	T cell subsets	16	U133plus2 CEL files	RefRMA
GSE19599	Immune cells	16	U133plus2 CEL files	RefRMA
GSE22342	Decidual macrophages	16	U133plus2 CEL files	RefRMA
GSE22552	Erythroblasts	16	U133plus2 CEL files	RefRMA
GSE24736	Naive B cells	16	U133plus2 CEL files	RefRMA
GSE26495	T cells	16	U133plus2 CEL files	RefRMA
GSE26673	Burkitt	16	U133plus2 CEL files	RefRMA
GSE28996	Salivary gland tumor	16	U133plus2 CEL files	RefRMA
GSE48521	Amniotic fluid	16	U133plus2 CEL files	RefRMA
GSE52139	MS samples	16	U133plus2 CEL files	RefRMA
GSE54247	T cells	16	U133plus2 CEL files	RefRMA
GSE68889	Adrenal gland	16	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE11057	T cells	17	U133plus2 CEL files	RefRMA
GSE17312	Epigenome and tissues BROAD	17	U133plus2 CEL files	RefRMA
GSE23343	Liver	17	U133plus2 CEL files	RefRMA
GSE33425	MAIT cells	17	U133plus2 CEL files	RefRMA
GSE10961	CoCa Liver mets	18	U133plus2 CEL files	RefRMA
GSE12090	KiCa	18	U133plus2 CEL files	RefRMA
GSE14841	Jejunum	18	U133plus2 CEL files	RefRMA
GSE15744	Embryo	18	U133plus2 CEL files	RefRMA
GSE18290	Embryo	18	U133plus2 CEL files	RefRMA
GSE29652	Astrocytes	18	U133plus2 CEL files	RefRMA
GSE30159	Bone Cushings syndrome	18	U133plus2 CEL files	RefRMA
GSE44765	Hair follicle	18	U133plus2 CEL files	RefRMA
GSE45113	Memory B cells cultured	18	U133plus2 CEL files	RefRMA
GSE51540	Th17	18	U133plus2 CEL files	RefRMA
GSE59237	Dendritic cells	18	U133plus2 CEL files	RefRMA
E-MTAB-47	Pleura	19	U133plus2 CEL files	RefRMA
GSE13353	Blood Vessel	19	U133plus2 CEL files	RefRMA
GSE14926	T cells	19	U133plus2 CEL files	RefRMA
GSE26526	CLL	19	U133plus2 CEL files	RefRMA
GSE30201	Hematopoietic stem cells	19	U133plus2 CEL files	RefRMA
GSE35955	MSCs	19	U133plus2 CEL files	RefRMA
GSE55945	PrCa	19	U133plus2 CEL files	RefRMA
GSE9254	Colon mucosa sections	19	U133plus2 CEL files	RefRMA
E-MEXP-1140	Pancreas	20	U133plus2 CEL files	RefRMA
GSE12644	Aortic valve	20	U133plus2 CEL files	RefRMA
GSE29981	Endometrium	20	U133plus2 CEL files	RefRMA
GSE30499	cell culture hypoxia	20	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE3998	Prostate celltypes	20	U133plus2 CEL files	RefRMA
E-MTAB-2246	Splenic B cells	21	U133plus2 CEL files	RefRMA
E-TABM-34	Dendritic cells	21	U133plus2 CEL files	RefRMA
GSE13896	Macrophages	21	U133plus2 CEL files	RefRMA
GSE39594	T cells cell culture	21	U133plus2 CEL files	RefRMA
GSE56237	Granulocyte macrophage derived AML	21	U133plus2 CEL files	RefRMA
GSE6872	Sperm cells	21	U133plus2 CEL files	RefRMA
GSE7788	Hodgkin lymphoma	21	U133plus2 CEL files	RefRMA
GSE7869	Kidney cysts	21	U133plus2 CEL files	RefRMA
E-MEXP-2219	Bone	22	U133plus2 CEL files	RefRMA
GSE19650	Pancreas duct epithelium	22	U133plus2 CEL files	RefRMA
GSE20710	GIST	22	U133plus2 CEL files	RefRMA
GSE22103	Neutrophils	22	U133plus2 CEL files	RefRMA
GSE28619	Alcoholoic hepatitis	22	U133plus2 CEL files	RefRMA
GSE35603	Embryonic stem cells	22	U133plus2 CEL files	RefRMA
GSE17906	Tumor stroma cell types	23	U133plus2 CEL files	RefRMA
GSE24206	Lung fibrosis	23	U133plus2 CEL files	RefRMA
GSE25518	Testes	23	U133plus2 CEL files	RefRMA
GSE26966	Pituitary gland	23	U133plus2 CEL files	RefRMA
GSE49958	Endothelial cells normoxia	23	U133plus2 CEL files	RefRMA
GSE10406	Sinus mucosa	24	U133plus2 CEL files	RefRMA
GSE19404	Primitive Neuroectodermal tumors	24	U133plus2 CEL files	RefRMA
GSE24739	CML proliferating vs nonproliferating	24	U133plus2 CEL files	RefRMA
GSE24742	Synovium	24	U133plus2 CEL files	RefRMA
GSE26910	Stromal cells BrCa PrCa	24	U133plus2 CEL files	RefRMA
GSE29641	Cell lines under hypoxia	24	U133plus2 CEL files	RefRMA
GSE30723	Pneumocytes	24	U133plus2 CEL files	RefRMA

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GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE31681	Cumulus cells	24	U133plus2 CEL files	RefRMA
GSE36830	Rhinosinusitis	24	U133plus2 CEL files	RefRMA
GSE40893	Erythroid cells	24	U133plus2 CEL files	RefRMA
GSE43596	Macrophages	24	U133plus2 CEL files	RefRMA
GSE53795	Th17 in Acne	24	U133plus2 CEL files	RefRMA
E-MEXP-2360	Plasmablasts	25	U133plus2 CEL files	RefRMA
GSE28914	Wound healing	25	U133plus2 CEL files	RefRMA
GSE7568	Macrophages + TGFb	25	U133plus2 CEL files	RefRMA
E-MEXP-3641	Follicle cell types	26	U133plus2 CEL files	RefRMA
GSE30153	B cells Lupus	26	U133plus2 CEL files	RefRMA
GSE14827	Osteosarcoma	27	U133plus2 CEL files	RefRMA
GSE17891	Pancreatic cancer	27	U133plus2 CEL files	RefRMA
GSE32719	Hematopoietic stem cells	27	U133plus2 CEL files	RefRMA
GSE53012	Cell lines under hypoxia	27	U133plus2 CEL files	RefRMA
GSE35331	Mesenchymal Stromal Cells from FL and normal	28	U133plus2 CEL files	RefRMA
GSE39397	CoCa cell populations	28	U133plus2 CEL files	RefRMA
GSE50677	Memory T cells	28	U133plus2 CEL files	RefRMA
GSE14020	BrCa Mets	29	U133plus2 CEL files	RefRMA
GSE21369	Lung fibrosis	29	U133plus2 CEL files	RefRMA
GSE28829	Arterial plaque	29	U133plus2 CEL files	RefRMA
GSE7513	BrCa cell types	29	U133plus2 CEL files	RefRMA
E-MEXP-2780	PaCa	30	U133plus2 CEL files	RefRMA
GSE10358	AML M3 vs Bone marrow	30	U133plus2 CEL files	RefRMA
GSE11524	Platelets	30	U133plus2 CEL files	RefRMA
GSE13059	Tumor cells	30	U133plus2 CEL files	RefRMA
GSE13670	Macrophages	30	U133plus2 CEL files	RefRMA
GSE5764	Breast and BrCa	30	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE7637	MSCs	30	U133plus2 CEL files	RefRMA
GSE18811	Retina	31	U133plus2 CEL files	RefRMA
GSE27120	Brca stroma	31	U133plus2 CEL files	RefRMA
E-MEXP-1337	Duodenal mucosa	32	U133plus2 CEL files	RefRMA
GSE11355	Duodenum	32	U133plus2 CEL files	RefRMA
GSE23629	KiCa	32	U133plus2 CEL files	RefRMA
GSE25698	KiCa	32	U133plus2 CEL files	RefRMA
GSE27838	NK cells	32	U133plus2 CEL files	RefRMA
GSE32676	Panc Ca	32	U133plus2 CEL files	RefRMA
GSE39409	Ampulla of Vater	32	U133plus2 CEL files	RefRMA
GSE59184	M1 M2 macrophages	32	U133plus2 CEL files	RefRMA
GSE31192	Stroma	33	U133plus2 CEL files	RefRMA
GSE42952	Pancreatic cancer mets	33	U133plus2 CEL files	RefRMA
GSE5787	CervicalCa	33	U133plus2 CEL files	RefRMA
GSE39133	Hodgkin Lymphoma	34	U133plus2 CEL files	RefRMA
GSE42519	Myeloid cells	34	U133plus2 CEL files	RefRMA
GSE13314	MALT	35	U133plus2 CEL files	RefRMA
GSE17061	FAB M0	35	U133plus2 CEL files	RefRMA
GSE18995	Lung normal	35	U133plus2 CEL files	RefRMA
GSE24290	Sural nerve	35	U133plus2 CEL files	RefRMA
GSE27928	FL TILs	35	U133plus2 CEL files	RefRMA
GSE12679	Brain endothelium	36	U133plus2 CEL files	RefRMA
GSE14334	Fetal lung	36	U133plus2 CEL files	RefRMA
GSE18494	Cell lines under hypoxia	36	U133plus2 CEL files	RefRMA
GSE37463	Kidney glomeruli tubules	36	U133plus2 CEL files	RefRMA
GSE51997	T cells during infection	36	U133plus2 CEL files	RefRMA
GSE73542	Dendritic cell activation	36	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE10971	Fallopian tube epithelium	37	U133plus2 CEL files	RefRMA
GSE32959	Th1 vs Th2	37	U133plus2 CEL files	RefRMA
GSE49910	Immune Cells	37	U133plus2 CEL files	RefRMA
GSE9656	Macroglobulinemia	37	U133plus2 CEL files	RefRMA
E-MTAB-1719	Mesothelioma	38	U133plus2 CEL files	RefRMA
GSE11622	Vagina	38	U133plus2 CEL files	RefRMA
GSE28133	Retina	38	U133plus2 CEL files	RefRMA
GSE29819	Heart ventricle	38	U133plus2 CEL files	RefRMA
GSE36000	MCL	38	U133plus2 CEL files	RefRMA
GSE41177	Heart atrium	38	U133plus2 CEL files	RefRMA
GSE43475	Endothelial cells	38	U133plus2 CEL files	RefRMA
GSE45670	Esophageal cancer	38	U133plus2 CEL files	RefRMA
GSE68015	Brain tumors	38	U133plus2 CEL files	RefRMA
E-MTAB-1503	HCC	39	U133plus2 CEL files	RefRMA
GSE26511	Cervical cancer	39	U133plus2 CEL files	RefRMA
GSE30355	Keratinocytes	39	U133plus2 CEL files	RefRMA
GSE40182	Cytotrophoblasts	39	U133plus2 CEL files	RefRMA
GSE10524	DLBCL tissue location	40	U133plus2 CEL files	RefRMA
GSE22954	Esophageal cancer	40	U133plus2 CEL files	RefRMA
GSE29628	Thp1 cells	40	U133plus2 CEL files	RefRMA
GSE38351	Monocytes	40	U133plus2 CEL files	RefRMA
GSE41804	LiCa	40	U133plus2 CEL files	RefRMA
GSE42140	AML blast induction	40	U133plus2 CEL files	RefRMA
GSE59786	Tregs and Tconvs	40	U133plus2 CEL files	RefRMA
GSE12452	Nasopharyngeal carcinoma	41	U133plus2 CEL files	RefRMA
GSE14924	AML Tcells	41	U133plus2 CEL files	RefRMA
GSE23293	CLL Tcells	41	U133plus2 CEL files	RefRMA

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GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE23402	Embryonic stem cells	42	U133plus2 CEL files	RefRMA
GSE30292	Intestinal cell types	42	U133plus2 CEL files	RefRMA
GSE69438	Kidney	42	U133plus2 CEL files	RefRMA
GSE10282	Melanoma	43	U133plus2 CEL files	RefRMA
GSE10300	Head and neck SCC	43	U133plus2 CEL files	RefRMA
GSE19234	Melanoma	44	U133plus2 CEL files	RefRMA
GSE14407	OvCa stroma	45	U133plus2 CEL files	RefRMA
GSE2125	Macrophages	45	U133plus2 CEL files	RefRMA
GSE16385	Macrophages	46	U133plus2 CEL files	RefRMA
GSE26051	Tendon	46	U133plus2 CEL files	RefRMA
GSE36907	CLL cell analysis	46	U133plus2 CEL files	RefRMA
GSE82155	Pericardial fat	46	U133plus2 CEL files	RefRMA
GSE15235	Liver fibrosis	47	U133plus2 CEL files	RefRMA
GSE71935	AML	47	U133plus2 CEL files	RefRMA
GSE11196	Myofibroblasts	48	U133plus2 CEL files	RefRMA
GSE16395	Dendritic cell tumor	48	U133plus2 CEL files	RefRMA
GSE17800	Myocard	48	U133plus2 CEL files	RefRMA
GSE18206	Epidermis	48	U133plus2 CEL files	RefRMA
GSE57915	Dendritic cell activation	48	U133plus2 CEL files	RefRMA
GSE65010	Tregs	48	U133plus2 CEL files	RefRMA
GSE40611	Parotid gland	49	U133plus2 CEL files	RefRMA
GSE40873	Tumor adjacent normal liver	49	U133plus2 CEL files	RefRMA
GSE75271	Hepatoblastoma	49	U133plus2 CEL files	RefRMA
GSE14615	TALL	50	U133plus2 CEL files	RefRMA
GSE23593	BrCa	50	U133plus2 CEL files	RefRMA
GSE26339	Adipose tissue	50	U133plus2 CEL files	RefRMA
GSE46602	PrCa	50	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE16237	Neuroblastoma	51	U133plus2 CEL files	RefRMA
GSE67066	Pheochromocytoma and paraganglioma	51	U133plus2 CEL files	RefRMA
GSE16515	Pancreatic cancer	52	U133plus2 CEL files	RefRMA
GSE24223	Immune cells	52	U133plus2 CEL files	RefRMA
GSE18088	CoCa	53	U133plus2 CEL files	RefRMA
GSE24006	HSC LSC	54	U133plus2 CEL files	RefRMA
GSE8586	Umbilical cord	54	U133plus2 CEL files	RefRMA
GSE12814	Fibroids	55	U133plus2 CEL files	RefRMA
GSE17679	Ewing sarcoma	55	U133plus2 CEL files	RefRMA
GSE6791	HPV-positive SCCs	55	U133plus2 CEL files	RefRMA
GSE13367	Descending colon colonocytes	56	U133plus2 CEL files	RefRMA
E-MTAB-694	Peritoneum	57	U133plus2 CEL files	RefRMA
GSE10245	LuCa	58	U133plus2 CEL files	RefRMA
GSE10616	Colon	58	U133plus2 CEL files	RefRMA
GSE44971	Astrocytoma	58	U133plus2 CEL files	RefRMA
GSE65914	Th1 Th17 in Rosacea	58	U133plus2 CEL files	RefRMA
GSE14671	Chronic Myeloid Leukemia (CML)	59	U133plus2 CEL files	RefRMA
GSE23878	CoCa	59	U133plus2 CEL files	RefRMA
GSE29683	Retinoblastoma	59	U133plus2 CEL files	RefRMA
GSE75062	Pancreatic islets	59	U133plus2 CEL files	RefRMA
GSE12838	Blood cells	60	U133plus2 CEL files	RefRMA
GSE20436	Eye Conjunctiva	60	U133plus2 CEL files	RefRMA
GSE36769	Breast TILs	60	U133plus2 CEL files	RefRMA
GSE47908	Colitis	60	U133plus2 CEL files	RefRMA
GSE6338	PTCL	60	U133plus2 CEL files	RefRMA
GSE21029	CLL	62	U133plus2 CEL files	RefRMA
GSE35896	CoCa	62	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE9988	Monocytes	62	U133plus2 CEL files	RefRMA
GSE12720	Liver transplants	63	U133plus2 CEL files	RefRMA
GSE15329	Genentech NHL samples	63	U133plus2 CEL files	RefRMA
GSE18520	Papillary serous ovarian adenocarcinomas	63	U133plus2 CEL files	RefRMA
GSE4302	Airway epithelial cells	63	U133plus2 CEL files	RefRMA
GSE63626	Fibroblasts	63	U133plus2 CEL files	RefRMA
GSE14879	ALCL	64	U133plus2 CEL files	RefRMA
GSE21452	Mantle Cell Lymphoma	64	U133plus2 CEL files	RefRMA
GSE21723	Vascular endothelial cell	64	U133plus2 CEL files	RefRMA
GSE39156	Cell lines exposed to radiation	64	U133plus2 CEL files	RefRMA
GSE51401	Endothelial cells	64	U133plus2 CEL files	RefRMA
GSE8671	Colon normal and tumor mucosa	64	U133plus2 CEL files	RefRMA
GSE10927	Adrenal gland	65	U133plus2 CEL files	RefRMA
GSE22459	Kidney Transplants	65	U133plus2 CEL files	RefRMA
GSE35661	Muscle skeletal	65	U133plus2 CEL files	RefRMA
GSE50385	Ependymoma	65	U133plus2 CEL files	RefRMA
GSE11151	KiCa subtypes	67	U133plus2 CEL files	RefRMA
GSE12453	Hodgkin Lymphoma	67	U133plus2 CEL files	RefRMA
GSE14378	KiCa	68	U133plus2 CEL files	RefRMA
GSE16581	Meningiomas	68	U133plus2 CEL files	RefRMA
GSE19860	CoCa Chr unstable	68	U133plus2 CEL files	RefRMA
GSE21610	Heart myocardium	68	U133plus2 CEL files	RefRMA
GSE43346	Small LuCa normal tissues	68	U133plus2 CEL files	RefRMA
GSE23501	DLBCL	69	U133plus2 CEL files	RefRMA
GSE55267	Follicular lymphoma	69	U133plus2 CEL files	RefRMA
GSE28392	Muscle fibers	70	U133plus2 CEL files	RefRMA
GSE53733	Glioblastoma	70	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
E-MTAB-2387	Rectal cancer	71	U133plus2 CEL files	RefRMA
GSE28026	BrainCa	71	U133plus2 CEL files	RefRMA
GSE10445	LuCa	72	U133plus2 CEL files	RefRMA
GSE33650	Liver hepatitis	72	U133plus2 CEL files	RefRMA
GSE39816	T-ALL	72	U133plus2 CEL files	RefRMA
GSE49541	Fatty liver fibrosis	72	U133plus2 CEL files	RefRMA
GSE12667	LuCa	73	U133plus2 CEL files	RefRMA
GSE15605	Skin cancer	74	U133plus2 CEL files	RefRMA
GSE11292	TReg CD4 Tcell activation	75	U133plus2 CEL files	RefRMA
GSE30240	Cell culture irradiation response	75	U133plus2 CEL files	RefRMA
GSE6764	LiCa	75	U133plus2 CEL files	RefRMA
GSE36895	KiCa	76	U133plus2 CEL files	RefRMA
GSE40595	OvCa stroma	77	U133plus2 CEL files	RefRMA
GSE11190	Hepatitis	78	U133plus2 CEL files	RefRMA
GSE15471	Panc Ca	78	U133plus2 CEL files	RefRMA
GSE29796	Brain cells	78	U133plus2 CEL files	RefRMA
GSE12417	AML	79	U133plus2 CEL files	RefRMA
GSE17913	Oral mucosa	79	U133plus2 CEL files	RefRMA
GSE28490	Roche Immune cells	80	U133plus2 CEL files	RefRMA
GSE32448	PrCa	80	U133plus2 CEL files	RefRMA
E-MEXP-1243	PrCa	81	U133plus2 CEL files	RefRMA
GSE10792	BPALL	81	U133plus2 CEL files	RefRMA
GSE53820	Follicular Lymphoma	81	U133plus2 CEL files	RefRMA
GSE14905	Psoriasis	82	U133plus2 CEL files	RefRMA
GSE9348	CoCa	82	U133plus2 CEL files	RefRMA
GSE28702	CoCa Folfox	83	U133plus2 CEL files	RefRMA
GSE48780	Rheumatoid arthritis synovia	83	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
E-MEXP-1618	Bone	84	U133plus2 CEL files	RefRMA
GSE18864	BrCa	84	U133plus2 CEL files	RefRMA
E-MTAB-1803	Bladder cancer	85	U133plus2 CEL files	RefRMA
GSE31056	OSCC	85	U133plus2 CEL files	RefRMA
GSE7553	Skin and melanoma	87	U133plus2 CEL files	RefRMA
GSE16254	Neuroblastoma	88	U133plus2 CEL files	RefRMA
GSE18549	Metastases	89	U133plus2 CEL files	RefRMA
GSE47881	Muscle skeletal	89	U133plus2 CEL files	RefRMA
GSE1145	Heart	90	U133plus2 CEL files	RefRMA
GSE20711	BrCa	90	U133plus2 CEL files	RefRMA
GSE18842	LuCa	91	U133plus2 CEL files	RefRMA
GSE20238	LiCa	91	U133plus2 CEL files	RefRMA
GSE25902	Kidney transplants	91	U133plus2 CEL files	RefRMA
GSE34171	DLBCL	91	U133plus2 CEL files	RefRMA
GSE62232	HCC	91	U133plus2 CEL files	RefRMA
GSE31189	Bladder normal and tumor	92	U133plus2 CEL files	RefRMA
GSE11348	Nasal epithelium	93	U133plus2 CEL files	RefRMA
GSE31684	Bladder cancer	93	U133plus2 CEL files	RefRMA
GSE37364	CoCa	94	U133plus2 CEL files	RefRMA
GSE11166	Kidney	95	U133plus2 CEL files	RefRMA
GSE35809	GaCa	95	U133plus2 CEL files	RefRMA
E-MTAB-1690	Respiratory tract	97	U133plus2 CEL files	RefRMA
GSE47185	Kidney glomeruli tubules	97	U133plus2 CEL files	RefRMA
GSE13931	Lung macrophages	98	U133plus2 CEL files	RefRMA
GSE30219	LSCC	99	U133plus2 CEL files	RefRMA
GSE28571	LuCa	100	U133plus2 CEL files	RefRMA
GSE33532	NSCLC	100	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE39612	Merkle cell tumor	100	U133plus2 CEL files	RefRMA
E-TABM-1202	Sarcoma	101	U133plus2 CEL files	RefRMA
GSE34205	PBMCs	101	U133plus2 CEL files	RefRMA
GSE17025	Uterine cancer	103	U133plus2 CEL files	RefRMA
GSE19519	ER stress in cell lines	104	U133plus2 CEL files	RefRMA
GSE33630	Thyroid Cancer	105	U133plus2 CEL files	RefRMA
GSE13351	ALL	107	U133plus2 CEL files	RefRMA
GSE36771	BrCa	107	U133plus2 CEL files	RefRMA
GSE58812	Triple negative BrCa	107	U133plus2 CEL files	RefRMA
GSE17183	Hepatocytes	108	U133plus2 CEL files	RefRMA
GSE33112	CoCa	108	U133plus2 CEL files	RefRMA
GSE47051	ALL children	108	U133plus2 CEL files	RefRMA
GSE25571	CLL	109	U133plus2 CEL files	RefRMA
GSE28422	Muscle skeletal	110	U133plus2 CEL files	RefRMA
GSE63074	NSCLC	112	U133plus2 CEL files	RefRMA
GSE13732	T cells	113	U133plus2 CEL files	RefRMA
GSE26457	Breast tissue	113	U133plus2 CEL files	RefRMA
GSE29023	Multiple Myeloma	115	U133plus2 CEL files	RefRMA
GSE18732	Muscle skeletal	118	U133plus2 CEL files	RefRMA
GSE19804	LuCa	120	U133plus2 CEL files	RefRMA
GSE36911	Cells under ER stress	120	U133plus2 CEL files	RefRMA
GSE5460	BrCa	127	U133plus2 CEL files	RefRMA
GSE63514	Cervical cancer	128	U133plus2 CEL files	RefRMA
GSE17920	Hodgkin Lymphoma	130	U133plus2 CEL files	RefRMA
GSE35784	AML pediatric	130	U133plus2 CEL files	RefRMA
GSE39671	CLL	130	U133plus2 CEL files	RefRMA
GSE46699	KiCa	130	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE16879	IBD Intestine mucosa	133	U133plus2 CEL files	RefRMA
GSE45267	LiCa	134	U133plus2 CEL files	RefRMA
GSE12195	DLBCL	136	U133plus2 CEL files	RefRMA
GSE13576	ALL	136	U133plus2 CEL files	RefRMA
GSE39411	B cell stimulation	136	U133plus2 CEL files	RefRMA
GSE18105	CoCa	140	U133plus2 CEL files	RefRMA
GSE20565	OvCa	140	U133plus2 CEL files	RefRMA
GSE37642	AML	140	U133plus2 CEL files	RefRMA
GSE41137	KiCa sample conditions	140	U133plus2 CEL files	RefRMA
GSE41168	Muscle and adipose tissue	140	U133plus2 CEL files	RefRMA
GSE55092	HCC	140	U133plus2 CEL files	RefRMA
GSE22148	Sputum	143	U133plus2 CEL files	RefRMA
GSE53757	KiCa	144	U133plus2 CEL files	RefRMA
GSE20916	Colon mucosa	145	U133plus2 CEL files	RefRMA
GSE43580	LuCa	148	U133plus2 CEL files	RefRMA
GSE51981	Endometriosis	148	U133plus2 CEL files	RefRMA
GSE17951	PrCa	154	U133plus2 CEL files	RefRMA
GSE13294	CoCa	155	U133plus2 CEL files	RefRMA
GSE19188	LuCa	156	U133plus2 CEL files	RefRMA
GSE4302	Airway epithelium	160	U133plus2 CEL files	RefRMA
GSE11906	Lung COPD	172	U133plus2 CEL files	RefRMA
GSE32474	NCI60 cell line panel	174	U133plus2 CEL files	RefRMA
GSE58331	Lacrimal gland	174	U133plus2 CEL files	RefRMA
GSE76896	Pancreatic islets	174	U133plus2 CEL files	RefRMA
GSE71571	Colon	176	U133plus2 CEL files	RefRMA
GSE19246	DLBCL	177	U133plus2 CEL files	RefRMA
GSE50081	LuCa	181	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE73038	Brain tumors	182	U133plus2 CEL files	RefRMA
GSE10780	BrCa and normals	185	U133plus2 CEL files	RefRMA
GSE19069	PTCL T-cell lymphoma	190	U133plus2 CEL files	RefRMA
GSE40791	LuCa	194	U133plus2 CEL files	RefRMA
GSE37745	LuCa	196	U133plus2 CEL files	RefRMA
GSE76124	Triple negative BrCa	198	U133plus2 CEL files	RefRMA
GSE19429	Bone marrow MDS	200	U133plus2 CEL files	RefRMA
GSE12276	BrCa	204	U133plus2 CEL files	RefRMA
GSE10843	Genentech cell line panel	206	U133plus2 CEL files	RefRMA
GSE26682	CoCa	218	U133plus2 CEL files	RefRMA
GSE31048	B-cell CLL normal	221	U133plus2 CEL files	RefRMA
GSE36701	Rectal mucosa	221	U133plus2 CEL files	RefRMA
GSE21545	Arterial Plaques	223	U133plus2 CEL files	RefRMA
GSE30784	Oral squamous cells	229	U133plus2 CEL files	RefRMA
GSE34211	Pfizer cell line panel	230	U133plus2 CEL files	RefRMA
GSE10609	ALL Tcell	235	U133plus2 CEL files	RefRMA
GSE26760	MM	240	U133plus2 CEL files	RefRMA
GSE30219	LuCa	246	U133plus2 CEL files	RefRMA
GSE31210	LuCa	246	U133plus2 CEL files	RefRMA
GSE15434	AML	251	U133plus2 CEL files	RefRMA
GSE11882	Brain	253	U133plus2 CEL files	RefRMA
GSE21349	Multiple Myeloma	258	U133plus2 CEL files	RefRMA
GSE21653	BrCa	266	U133plus2 CEL files	RefRMA
GSE7023	KiCa subtypes	269	U133plus2 CEL files	RefRMA
GSE40231	Artery	278	U133plus2 CEL files	RefRMA
GSE9891	OvCa	285	U133plus2 CEL files	RefRMA
GSE10358	AML M3 vs Bone marrow	300	U133plus2 CEL files	RefRMA

Table S2 . ArrayExpress ID numbers

GEO / ArrayExpress ID	Description	Samples	Data	Processing
GSE48581	Kidney transplants	300	U133plus2 CEL files	RefRMA
GSE62254	GastricCa	300	U133plus2 CEL files	RefRMA
GSE16382	Sarcoma	310	U133plus2 CEL files	RefRMA
GSE13070	Muscle Adipose	324	U133plus2 CEL files	RefRMA
GSE20685	BrCa	327	U133plus2 CEL files	RefRMA
GSE19784	Multiple Myeloma	328	U133plus2 CEL files	RefRMA
GSE15460	Gastric cancer	329	U133plus2 CEL files	RefRMA
GSE13067	CoCa Moffitt Cancer Center	392	U133plus2 CEL files	RefRMA
GSE36059	Kidney transplants	410	U133plus2 CEL files	RefRMA
GSE56768	Blood cells	417	U133plus2 CEL files	RefRMA
GSE10846	DLBCL	420	U133plus2 CEL files	RefRMA
GSE54002	BrCa	433	U133plus2 CEL files	RefRMA
GSE31312	DLBCL	498	U133plus2 CEL files	RefRMA
GSE6891	AML	536	U133plus2 CEL files	RefRMA
E-MTAB-3073	BrainCa	550	U133plus2 CEL files	RefRMA
GSE24080	Multiple Myeloma MAQC-II	559	U133plus2 CEL files	RefRMA
GSE26906	CoCa	566	U133plus2 CEL files	RefRMA
GSE57083	AstraZeneca	626	U133plus2 CEL files	RefRMA
GSE7307	BodyIndex	671	U133plus2 CEL files	RefRMA
GSE48433	Xenografts	823	U133plus2 CEL files	RefRMA
GSE36133	BROAD CCLE	917	U133plus2 CEL files	RefRMA
NA	GSK cell line panel	950	U133plus2 CEL files	RefRMA
GSE2109	expO Tumors	1809	U133plus2 CEL files	RefRMA
GSE13204	MILE study	2096	U133plus2 CEL files	RefRMA