Supplementary Table S1. Genes that characterize each of the 4 molecular classes

Significance Analysis of Microarrays (SAM) was used to identify class-associated genes from the variably expressed gene pool of 2228 probes including the 229 probes from the intrinsic gene set.

False discovery rate was set at 0.0001.

There are 372 probe sets significant by SAM, corresponding to 298 genes

rank	Probe set	Gene symbol	Overexpressed in subtype	rank	Probe set	Gene symbol
1	204667_at	FOXA1	luminal	150	202263_at	CYB5R1
2	212956_at	KIAA0882	luminal	151	203789_s_at*	SEMA3C
3	209602_s_at*	GATA3	luminal	152	204540_at	EEF1A2
4	209173_at	AGR2	luminal	153	204045_at*	TCEAL1
5	200670_at*	XBP1	luminal	154	204798_at	MYB
6	214164_x_at	CA12	luminal	155	202133_at	TAZ
7	202089_s_at*	SLC39A6	luminal	156	211122_s_at	CXCL11
8	218211_s_at	MLPH	luminal	157	218692_at	FLJ20366
9	215108_x_at	TNRC9	erbb2+	158	214428_x_at*	C4A
10	215867_x_at	AP1G1	luminal	159	212256_at*	GALNT10
11	205471_s_at	DACH1	luminal	160	217894_at	KCTD3
12	55616_at	PERLD1	erbb2+	161	206754_s_at	CYP2B6
13	216836_s_at*	ERBB2	erbb2+	162	201426_s_at	VIM
14	220192_x_at	SPDEF	erbb2+	163	204825_at	MELK
15	218976_at	DNAJC12	luminal	164	213338_at	RIS1
16	204623_at*	TFF3	erbb2+	165	212181_s_at	NUDT4
17	205862_at	GREB1	luminal	166	201525_at*	APOD
18	201596_x_at	KRT18	erbb2+	167	217000_at	Human DNA sequence from clone 84D21
19	220559_at	EN1	basal-like	168	212985_at*	FLJ14001
20	203628_at*	IGF1R	luminal	169	219956_at	GALNT6
21	219197_s_at*	SCUBE2	luminal	170	219872_at*	DKFZp434L142
22	210761_s_at*	GRB7	erbb2+	171	201568_at	QP-C
23	218195_at	C6orf211	luminal	172	208623_s_at	VIL2
24	212771_at	C10orf38	basal-like	173	219648_at	FLJ10116
25	203685_at	BCL2	luminal	174	212736_at*	BC008967
26	210933_s_at	MGC4655	basal-like	175	205380_at	PDZK1
27	201754_at*	COX6C	luminal	176	203287_at*	LAD1
28	200811_at	CIRBP	luminal	177	203710_at	ITPR1
29	218532_s_at	FLJ20152	luminal	178	212115_at	C16orf34
30	205044_at*	GABRP	basal-like	179	219010_at	FLJ10901
31	221874_at	KIAA1324	luminal	180	221589_s_at	ALDH6A1
32	205081_at	CRIP1	luminal	181	209114_at	TSPAN-1
33	203929_s_at	MAPT	luminal	182	204533_at	CXCL10
34	212099_at	RHOB	luminal	183	46323_at	ENTPD8
35	205355_at*	ACADSB	luminal	184	203637_s_at	MID1
36	213627_at	MAGED2	luminal	185	205009_at	TFF1
37	212190_at	SERPINE2	basal-like	186	210683_at	NRTN
38	217838_s_at	EVL	luminal	187	204379_s_at	FGFR3
39	212148_at*	PBX1	luminal	188	35666_at	SEMA3F

40	209191_at	MGC4083	basal-like	189	211621_at	AR
41	212638_s_at*	WWP1	luminal	190	208614_s_at*	FLNB
42	214440_at	NAT1	luminal	191	204913_s_at	SOX11
43	209842_at	SOX10	basal-like	192	216594_x_at*	AKR1C1
44	201387_s_at	UCHL1	basal-like	193	201841_s_at	HSPB1
45	204686_at*	IRS1	luminal	194	209524_at	HDGFRP3
46	209681_at	SLC19A2	luminal	195	207038_at	SLC16A6
47	209696_at*	FBP1	luminal	196	218319_at	PELI1
48	206391_at	RARRES1	basal-like	197	219572_at	CADPS2
49	205696_s_at	GFRA1	luminal	198	201360_at	CST3
50	214858_at	Clone 24566 mRNA sequence	erbb2+	199	202269_x_at	GBP1
51	218309_at*	CaMKIINalpha	luminal	200	209204_at	LMO4
52	203571_s_at	C10orf116	luminal	201	203705_s_at*	FZD7
53	210652_s_at	C1orf34	luminal	202	213557_at	CRK7
54	209800_at	KRT16	basal-like	203	215001_s_at	GLUL
55	205597_at	C6orf29	erbb2+	204	202121_s_at	BC-2
56	212446_s_at	LASS6	luminal	205	205363_at	BBOX1
57	203438_at	STC2	luminal	206	201579_at	FAT
58	201215_at	PLS3	basal-like	207	207076_s_at	ASS
59	213712_at	ELOVL2	luminal	208	204029_at	CELSR2
60	217979_at	TM4SF13	luminal	209	202887_s_at	DDIT4
61	209283_at	CRYAB	basal-like	210	211548_s_at	HPGD
62	221024_s_at	SLC2A10	erbb2+	211	201400_at	PSMB3
63	218086_at	NPDC1	luminal	212	218025_s_at	PECI
64	212195_at	MRNA; cDNA DKFZp564F053 (from clone DKFZp564F053)	luminal	213	202912_at	ADM
65	204862_s_at	NME3	luminal	214	200765_x_at	CTNNA1
66	215729_s_at*	VGLL1	basal-like	215	200659_s_at	PHB
67	203757_s_at	CEACAM6	erbb2+	216	218164_at	FLJ21347
68	208617_s_at	PTP4A2	luminal	217	209911_x_at	HIST1H2BD
69	218807_at*	VAV3	luminal	218	210085_s_at	ANXA9
70	218259_at	MRTF-B	luminal	219	202489_s_at*	FXYD3
71	216381_x_at	AKR7A2	luminal	220	204364_s_at	C2orf23
72	205440_s_at	NPY1R	luminal	221	201397_at	PHGDH
73	215945_s_at	TRIM2	basal-like	222	210942_s_at	SIAT10
74	41660_at	CELSR1	luminal	223	222258_s_at	SH3BP4
75	219913_s_at	CRNKL1	luminal	224	212462_at	MYST4
76	203773_x_at*	BLVRA	erbb2+	225	39248_at*	AQP3
77	205186_at	DNALI1	luminal	226	202554_s_at*	GSTM3
78	218094_s_at	C20orf35	luminal	227	205066_s_at	ENPP1
79	220425_x_at	ROPN1	basal-like	228	204863_s_at	IL6ST
80	40093_at*	LU	luminal	229	208788_at	ELOVL5
81	221823_at	LOC90355	luminal	230	213134_x_at*	BTG3
82	214800_x_at	BTF3	luminal	231	209339_at*	SIAH2
83	203256_at*	CDH3	basal-like	232	213245_at	ADCY1

84	213060_s_at*	CHI3L2	basal-like	233	217897_at	FXYD6
85	212209_at*	THRAP2	luminal	234	219768_at	B7-H4
		CDNA FLJ44318 fis, clone				
86	214053_at	TRACH3000780	luminal	235	200824_at*	GSTP1
87	213564_x_at	LDHB	basal-like	236	203999_at	SYT1
88	204259_at	MMP7	basal-like	237	204855_at	SERPINB5
89	203988_s_at	FUT8	luminal	238	215034_s_at	TM4SF1
90	200600_at	MSN	basal-like	239	205830_at	CLGN
91	202035_s_at	SFRP1	basal-like	240	202704_at	TOB1
92	203453_at*	SCNN1A	erbb2+	241	205890_s_at	UBD
93	209644_x_at	CDKN2A	basal-like	242	200618_at	LASP1
94	220624_s_at	ELF5	basal-like	243	206091_at	MATN3
95	209623_at*	MCCC2	luminal	244	210095_s_at	IGFBP3
96	201820_at*	KRT5	basal-like	245	209900_s_at	SLC16A1
97	204304_s_at	PROM1	basal-like	246	211695_x_at*	MUC1
98	220432_s_at	CYP39A1	basal-like	247	212236_x_at*	KRT17
99	210024_s_at	UBE2E3	basal-like	248	214243_s_at	SERHL
100	221510_s_at	GLS	basal-like	249	210147_at	ART3
101	823_at*	CX3CL1	basal-like	250	211596_s_at	LRIG1
102	202991_at*	STARD3	erbb2+	251	220414_at	CALML5
103	201388_at	PSMD3	erbb2+	252	213043_s_at*	THRAP4
104	208978_at	CRIP2	erbb2+	253	210605_s_at*	MFGE8
105	209366_x_at*	CYB5	luminal	254	203476_at	TPBG
106	201826_s_at	CGI-49	luminal	255	209163_at	CYB561
107	222275_at	MRPS30	luminal	256	205509_at	CPB1
108	219415_at	TTYH1	basal-like	257	208103_s_at*	ANP32E
109	208287_at	HCG9	luminal	258	201884_at	CEACAM5
110	220540_at	KCNK15	luminal	259	204994_at	MX2
111	221765_at	UGCG	luminal	260	218804_at	TMEM16A
112	204497_at	ADCY9	luminal	261	201952_at*	ALCAM
113	201508_at	IGFBP4	luminal	262	217973_at	DCXR
114	209460_at	ABAT	luminal	263	202345_s_at	FABP5
115	202600_s_at	NRIP1	luminal	264	205453_at	HOXB2
116	200804_at	TEGT	luminal	265	209122_at	ADFP
117	218640_s_at	PLEKHF2	luminal	266	209443_at	SERPINA5
118	207030_s_at	CSRP2	basal-like	267	202626_s_at	LYN
119	221577_x_at	GDF15	erbb2+	268	202308_at	SREBF1
120	211235_s_at*	ESR1	luminal	269	219786_at	MTL5
121	219051_x_at	C16orf23	luminal	270	209004_s_at	FBXL5
122	208966_x_at	IFI16	basal-like	271	221139_s_at	CSAD
123	209291_at*	ID4	basal-like	272	202119_s_at	CPNE3
124	212057_at*	KIAA0182	erbb2+	273	203780_at	EVA1
125	219795_at	SLC6A14	basal-like	274	216598_s_at	CCL2
126	204792_s_at	KIAA0590	luminal	275	208747_s_at	C1S
127	219570_at	C20orf23	luminal	276	221751_at	PANK3
128	208873_s_at*	DP1	luminal	277	203408_s_at	SATB1

129	212508_at	MOAP1	luminal	278	201468_s_at*	NQO1
130	201170_s_at	BHLHB2	luminal	279	202431_s_at	MYC
131	208763_s_at	DSIPI	normal-breast like	280	202870_s_at	CDC20
132	218963_s_at	KRT23	basal-like	281	219806_s_at	FN5
133	209318_x_at	PLAGL1	basal-like	282	221261_x_at	MAGED4
134	218313_s_at	GALNT7	erbb2+	283	213711_at	KRTHB1
135	201300_s_at	PRNP	basal-like	284	213680_at	KRT6B
136	209610_s_at	SLC1A4	luminal	285	200658_s_at	ZNF607
137	218813_s_at	SH3GLB2	luminal	286	215071_s_at	HIST1H2AC
138	206157_at	PTX3	basal-like	287	218450_at	HEBP1
139	208651_x_at*	CD24	erbb2+	288	206262_at	ADH1C
140	208760_at	UBE2I	luminal	289	204541_at	SEC14L2
141	209008_x_at	KRT8	erbb2+	290	201983_s_at	EGFR
142	209290_s_at	NFIB	basal-like	291	212708_at	LOC339287
143	202454_s_at	ERBB3	luminal	292	221542_s_at	C8orf2
144	209016_s_at	KRT7	erbb2+	293	201037_at	PFKP
145	203108_at	RAI3	erbb2+	294	204537_s_at	GABRE
146	212276_at	LPIN1	basal-like	295	201941_at	CPD
147	210145_at	PLA2G4A	basal-like	296	210980_s_at*	ASAH1
148	204351_at*	S100P	erbb2+	297	212077_at	CALD1
149	209170_s_at	GPM6B	basal-like	298	203343_at	UGDH