

Supplementary Table 1: Probe sets used in modified Src index and revised Src index (mSrc and rSrc indexes)

Number	Probe.set	Gene.symbol	Number	Probe.set	Gene.symbol
1	31874_at	GAS2L1	24	212044_s_at	RPL27A
2	37028_at	PPP1R15A	25	212435_at	---
3	200908_s_at	RPLP2	26	212492_s_at	KIAA0876
4	201128_s_at	ACLY	27	212560_at	SORL1
5	201447_at	TIA1	28	212928_at	TSPYL4
6	201737_s_at	TEB4	29	213056_at	GRSP1
7	201879_at	ARIH1	30	213069_at	KIAA1237
8	202245_at	LSS	31	213164_at	MRPS6
9	202506_at	SSFA2	32	213243_at	COH1
10	202569_s_at	MARK3	33	213262_at	SACS
11	202643_s_at	TNFAIP3	34	213279_at	DHRS1
12	202648_at	RPS19	35	213350_at	RPS11
13	203301_s_at	DMTF1	36	213352_at	KIAA0779
14	204404_at	SLC12A2	37	213485_s_at	ABCC10
15	204614_at	SERPINB2	38	213865_at	ESDN
16	204847_at	ZNF-U69274	39	215867_x_at	AP1G1
17	206011_at	CASP1	40	218397_at	FANCL
18	206414_s_at	DDEF2	41	218796_at	C20orf42
19	206591_at	RAG1	42	219181_at	LIPG
20	206976_s_at	HSPH1	43	219571_s_at	ZNF325
21	209537_at	EXTL2	44	220687_at	TRRAP
22	209773_s_at	RRM2	45	221284_s_at	SRC
23	211756_at	PTHLH	46	221900_at	COL8A2

Supplementary Table 2: Probe sets used in modified dasatinib sensitivity index (mDS index)

Number	Probe.set	Gene.symbol	Number	Probe.set	Gene.symbol
1	220914_at	---	72	214338_at	DNAJB12
2	216268_s_at	JAG1	73	201251_at	PKM2
3	209099_x_at	JAG1	74	218985_at	SLC2A8
4	209193_at	PIM1	75	208790_s_at	PTRF
5	209098_s_at	JAG1	76	219692_at	KREMEN2
6	220352_x_at	MGC4278	77	200889_s_at	SSR1
7	208966_x_at	IFI16	78	215867_x_at	CA12
8	206332_s_at	IFI16	79	204753_s_at	HLF
9	209160_at	AKR1C3	80	218214_at	FLJ11773
10	204343_at	ABCA3	81	211526_s_at	RTEL1
11	205535_s_at	PCDH7	82	209019_s_at	PINK1
12	217943_s_at	RPRC1	83	217655_at	FXYD5
13	208965_s_at	IFI16	84	200697_at	HK1
14	209154_at	TAX1BP3	85	204508_s_at	CA12
15	218084_x_at	FXYD5	86	203928_x_at	MAPT
16	214581_x_at	TNFRSF21	87	200771_at	LAMC1
17	213506_at	F2RL1	88	214446_at	ELL2
18	211749_s_at	VAMP3	89	214331_at	TSFM
19	218717_s_at	LEPREL1	90	215219_at	C21orf5
20	209589_s_at	EPHB2	91	206571_s_at	MAP4K4
21	213139_at	SNAI2	92	212097_at	CAV1
22	215196_at	---	93	220949_s_at	MGC5242
23	204279_at	PSMB9	94	203247_s_at	ZNF24
24	219871_at	FLJ13197	95	202388_at	RGS2
25	208789_at	PTRF	96	201813_s_at	TBC1D5
26	208908_s_at	CAST	97	209625_at	PIGH
27	203306_s_at	SLC35A1	98	208944_at	TGFBR2
28	211453_s_at	AKT2	99	210735_s_at	CA12
29	201263_at	TARS	100	66053_at	HNRPUL2
30	221087_s_at	APOL3	101	215173_at	LRRC50
31	216854_at	GDF11	102	210547_x_at	ICA1
32	201336_at	VAMP3	103	210859_x_at	CLN3
33	207467_x_at	CAST	104	205062_x_at	ARID4A
34	217373_x_at	MDM2	105	204567_s_at	ABCG1
35	203324_s_at	CAV2	106	211241_at	ANXA2P3
36	200770_s_at	LAMC1	107	209618_at	CTNND2
37	203499_at	EPHA2	108	207011_s_at	PTK7
38	210024_s_at	UBE2E3	109	209757_s_at	MYCN
39	209040_s_at	PSMB8	110	215505_s_at	STRN3
40	202062_s_at	SEL1L	111	204747_at	IFIT3
41	218856_at	TNFRSF21	112	201155_s_at	MFN2
42	205729_at	OSMR	113	64486_at	CORO1B
43	218718_at	PDGFC	114	204820_s_at	BTN3A3
44	220468_at	ARF7	115	201391_at	TRAP1
45	214046_at	---	116	219772_s_at	SMPX
46	215989_at	CBX2	117	213238_at	ATP10D
47	205398_s_at	SMAD3	118	214771_x_at	M-RIP

48	203234_at	UPP1	119	204646_at	DPYD
49	200600_at	MSN	120	219456_s_at	RIN3
50	213913_s_at	KIAA0984	121	221773_at	ELK3
51	208835_s_at	CROP	122	202077_at	NDUFAB1
52	221831_at	LUZP1	123	212594_at	PDCD4
53	203802_x_at	NSUN5	124	38241_at	BTN3A3
54	208102_s_at	PSD	125	206734_at	JRKL
55	218307_at	RSAD1	126	216215_s_at	RBM9
56	219751_at	FLJ21148	127	220457_at	FLJ10211
57	203954_x_at	CLDN3	128	203895_at	PLCB4
58	212294_at	GNG12	129	201590_x_at	ANXA2
59	221874_at	KIAA1324	130	217501_at	WDR39
60	203478_at	NDUFC1	131	203910_at	ARHGAP29
61	208816_x_at	ANXA2P2	132	205009_at	TFF1
62	201661_s_at	ACSL3	133	209835_x_at	CD44
63	215464_s_at	TAX1BP3	134	207021_at	ZPBP
64	204238_s_at	C6orf108	135	203623_at	PLXNA3
65	208782_at	FSTL1	136	201740_at	NDUFS3
66	214030_at	DKFZp667G2110	137	205634_x_at	ZDHHC24
67	219691_at	SAMD9	138	212754_s_at	KIAA1040
68	212253_x_at	DST	139	213398_s_at	C14orf124
69	212534_at	ZNF24	140	209018_s_at	PINK1
70	220329_s_at	C6orf96	141	204876_at	ZNF646
71	206329_at	EXTL1	142	211888_x_at	CASP10

Supplementary Table 3: Probe sets used in target index (T index)

Number	Probe.set	Gene.symbol	KD50.value
1	202123_s_at	ABL1	0.5
2	206411_s_at	ABL2	0.2
3	210934_at	BLK	0.2
4	203499_at	EPHA2	0.8
5	206071_s_at	EPHA3	0.09
6	215664_s_at	EPHA5	0.2
7	210753_s_at	EPHB1	0.4
8	202894_at	EPHB4	0.3
9	208438_s_at	FGR	0.5
10	207178_s_at	FRK	0.3
11	210105_s_at	FYN	0.7
12	208018_s_at	HCK	0.3
13	205051_s_at	KIT	0.6
14	204891_s_at	LCK	0.2
15	202626_s_at	LYN	0.6
16	203131_at	PDGFRA	0.4
17	202273_at	PDGFRB	0.6
18	213324_at	SRC	0.2
19	202933_s_at	YES1	0.3

Supplementary Table 4: Concordance correlation coefficients across three cell line data sets for the various mDS indices.

	BMS vs. MDACC (95% CI)	BMS vs. CancerCell (95% CI)	MDACC vs. CancerCell (95% CI)
Weighted Voting	0.693 (0.043, 0.931)	0.691 (0.355, 0.869)	0.676 (0.052, 0.920)
Centroid	0.818 (0.011, 0.980)	0.912 (0.842, 0.952)	0.735 (0.100, 0.944)
SVM	0.752 (0.096, 0.953)	0.872 (0.775, 0.928)	0.705 (0.113, 0.928)

Supplementary Figure 1. Distribution of dasatinib target index across 133 human breast cancer biopsies

Red bars indicate cases that fall within the top 25 percentile of the distribution range.

