

**Supplementary Table 1.** Reproducibility. Overview of all array experiments described in the paper providing standard deviations and relative numbers of usable features, indicating the reproducibility of noise and quality of the oligonucleotide array CGH platform. *Test sample*: name of the sample used in the test channel, *Ref. sample*: indicating the DNA used in the reference channel, *Tissue*: indicating the tissue type of the sample, *Type*: indicating whether the DNA was isolated from fresh or frozen tissue or from a formalin fixed paraffin embedded (FFPE) archival source, *Batch*: arbitrary batch number indicating whether arrays are from the same or different print batches, *Array elements*: indicating the number, species and type (BACs or oligonucleotides) of array elements used, *Remarks*: indicating conditions different from the described methods, *St. deviation*: the standard deviation of the log<sub>2</sub>ratio's in an area without chromosomal aberrations as determined by the smoothing algorithm(14), *Area for Stdev*: chromosomal area used to calculate the standard deviation, *% Features*: relative number of features that passed quality control, *Figure nr*: indicating the Figure numbers in which data from this experiment are displayed, *GEO acc. nr.*: indicating the accession number in the Gene Expression Omnibus database ([www.ncbi.nlm.nih.gov/projects/geo](http://www.ncbi.nlm.nih.gov/projects/geo)) from which experimental data are available.

Supplementary Table 1

Nr.	Test sample	Ref. sample	Tissue	Type	Batch	Array elements	Remarks	St. deviation	Area for Stdev	% Features	Figure nr.	GEO acc. nr.
1	BT474	normal male	cell line	fresh	A	29K human oligo		0.25	chr. 2	94.6	1A, 1C, 3, S1B	GSM73557
2	BT474	normal male	cell line	fresh	B	29K human oligo		0.24	chr. 2	86.3	3	GSM75164
3	BT474	normal male	cell line	fresh	C	29K human oligo		0.25	chr. 2	88.6	3	GSM75165
4	BT474	normal male	cell line	fresh	B	29K human oligo	1 µg input DNA	0.24	chr. 2	90.7	3	GSM75166
5	BT474	normal male	cell line	fresh	A	29K human oligo	no Cot1 DNA	0.28	chr. 2	87.4		GSM75167
*6	BT474	normal male	cell line	fresh	D	19K human oligo	100 µg Cot1 DNA	0.45	chr. 2	34.9	S1A	GSM82460
7	BT474	normal male	cell line	fresh	E	29K human oligo	no Cot1 DNA	0.29	chr. 2	76.2	S2A	GSM82461
8	BT474	normal male	cell line	fresh	E	29K human oligo		0.23	chr. 2	83.6	S2B	GSM82462
9	BT474	normal male	cell line	fresh	E	29K human oligo	100 µg Cot1 DNA	0.25	chr. 2	89.2	S2C	GSM82463
10	normal female 23	normal male	blood	fresh	F	29K human oligo		0.16	chr. 1-22	93.2	1B, 1D	GSM75163
11	normal female 24	normal male	blood	fresh	F	29K human oligo		0.24	chr. 1-22	92.3		GSM75867
12	normal female 26	normal male	blood	fresh	F	29K human oligo		0.22	chr. 1-22	94.7		GSM75868
13	normal female 37	normal male	blood	fresh	F	29K human oligo		0.20	chr. 1-22	95.3		GSM75869
14	normal female 45	normal male	blood	fresh	F	29K human oligo		0.19	chr. 1-22	95.0		GSM75870
15	normal female 46	normal male	blood	fresh	G	29K human oligo		0.21	chr. 1-22	87.2		GSM75871
16	normal female 51	normal male	blood	fresh	G	29K human oligo		0.22	chr. 1-22	80.0		GSM75872
17	normal female 63	normal male	blood	fresh	G	29K human oligo		0.20	chr. 1-22	83.8		GSM75873
18	GM01750	normal female	cell line	fresh	A	29K human oligo		0.21	chr. 2	92.0	2	GSM74521
19	GM07408	normal male	cell line	fresh	A	29K human oligo		0.28	chr. 2	94.9		GSM75168
20	GM13031	normal female	cell line	fresh	A	29K human oligo		0.19	chr. 2	93.2		GSM74522
21	MDA468	normal male	cell line	fresh	F	29K human oligo		0.20	chr. 2 (50 Mb - end)	96.0	4A	GSM75169
22	SUM159	normal male	cell line	fresh	G	29K human oligo		0.23	chr. 2 (15 Mb - end)	93.1	4C	GSM75170
23	SKBR7	normal male	cell line	fresh	H	29K human oligo		0.21	chr. 2	92.8	5A	GSM75171
24	Gastric A	normal female	tumour	FFPE	I	29K human oligo		0.37	chr. 2 (part)	88.1	6A	GSM75199
25	Gastric A	normal female	tumour	FFPE	J	5K human BAC	100 µg Cot1 DNA	0.14	chr. 2 (part)	80.5	6B	GSM75205
26	Gastric A	normal female	tumour	FFPE	B	29K human oligo		0.34	chr. 2 (part)	82.6		GSM75201
27	Gastric A	normal female	tumour	FFPE	B	29K human oligo		0.26	chr. 2 (part)	93.5		GSM75203
28	Gastric A	normal female	tumour	FFPE	K	5K human BAC	100 µg Cot1 DNA	0.21	chr. 2 (part)	84.7		GSM75208
29	lung A	normal female	tumour	frozen	I	29K human oligo	1 µg input DNA	0.19	chr. 2	94.8	S3A	GSM82464
30	lung A	normal female	tumour	frozen	L	29K human oligo	1 µg input DNA	0.24	chr. 2	98.8	S3B	GSM82465
31	mouse 137	spleen	tumour	frozen	M	21K mouse oligo		0.32	chr. 9	74.9	7A	GSM75209
32	mouse 137	spleen	tumour	frozen	N	3K mouse BAC	32 and 33 are techn. replicates	0.08	chr. 9		7B	GSM75175
33	mouse 137	spleen	tumour	frozen	N	3K mouse BAC						
34	mouse 32	spleen	tumour	frozen	M	21K mouse oligo		0.363	chr. 7 (part)	67.4		GSM75211
35	mouse 32	spleen	tumour	frozen	N	3K mouse BAC	35 and 36 are dye-swap replicates	0.105	chr. 7 (part)			GSM75172
36	mouse 32	spleen	tumour	frozen	N	3K mouse BAC						

\* this experiment was published in Carvalho et al (2004) *J.Clin.Path.*, **57**, 644-646 (6).