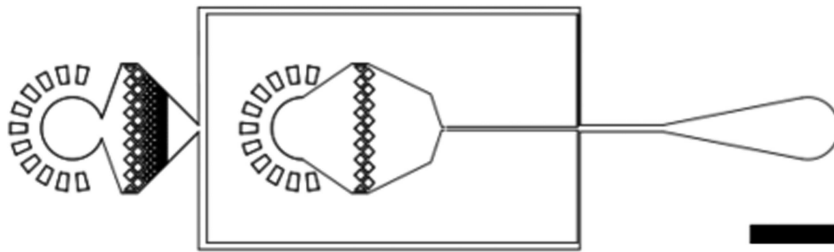


## Supplementary file

# Measurement of copy number variation in single cancer cells using rapid-emulsification digital droplet MDA

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**Figure S1** Flow focus device used for suction-pull method (scale bar: 1 mm). Nozzle size is 50  $\mu\text{m}$  ( $H$ )  $\times$  80  $\mu\text{m}$  ( $W$ ). The CAD file is also provided as Supplementary Data (re-ddMDA\_device.dwg).

**Table S1** Academic and commercial microfluidics foundries

Name	Web
Achira Labs (India)	<a href="http://www.achiralabs.com/microfluidic-chip-fabrication/">http://www.achiralabs.com/microfluidic-chip-fabrication/</a>
CiDRA Precision Services (USA)	<a href="http://www.cidraprecisionservices.com/">http://www.cidraprecisionservices.com/</a>
Elveflow (France)	<a href="http://www.elveflow.com/">http://www.elveflow.com/</a>
FlowJEM (Canada)	<a href="http://www.flowjem.com/">http://www.flowjem.com/</a>
Kavli Nanoscience Institute (USA)	<a href="http://www.kni.caltech.edu/facilities/">http://www.kni.caltech.edu/facilities/</a>
SIMTech Microfluidics Foundry (Singapore)	<a href="http://www1.simtech.a-star.edu.sg/smf/">http://www1.simtech.a-star.edu.sg/smf/</a>
uFluidix (USA)	<a href="http://ufluidix.com/">http://ufluidix.com/</a>

**Table S2** Correlation coefficients between CNV data obtained from different methods

	aCGH	ddMDA-50cell	ddMDA-1cell	re-ddMDA-1cell	vortex-MDA-1cell
aCGH	1	0.669	0.662	0.524	0.314
ddMDA-50cell		1	0.959	0.822	0.467
ddMDA-1cell			1	0.829	0.478
re-ddMDA-1cell				1	0.432

2.5 Mb binned log ratios were used to compute correlation coefficient.

**Table S3** Correlation coefficients between CNV data obtained from different methods

	aCGH	ddMDA-50cell	ddMDA-1cell	re-ddMDA-1cell	vortex-MDA-1cell
aCGH	1	0.635	0.609	0.450	0.167
ddMDA-50cell		1	0.877	0.693	0.202
ddMDA-1cell			1	0.674	0.190
re-ddMDA-1cell				1	0.154

500 kb binned log ratios were used to compute correlation coefficient.

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**Table S4** Correlation coefficients between CNV data obtained from different methods

	aCGH	ddMDA-50cell	ddMDA-1cell	re-ddMDA-1cell	vortex-MDA-1cell
aCGH	1	0.557	0.460	0.327	0.127
ddMDA-50cell		1	0.609	0.476	0.110
ddMDA-1cell			1	0.398	0.077
re-ddMDA-1cell				1	0.076

100 kb binned log ratios were used to compute correlation coefficient.