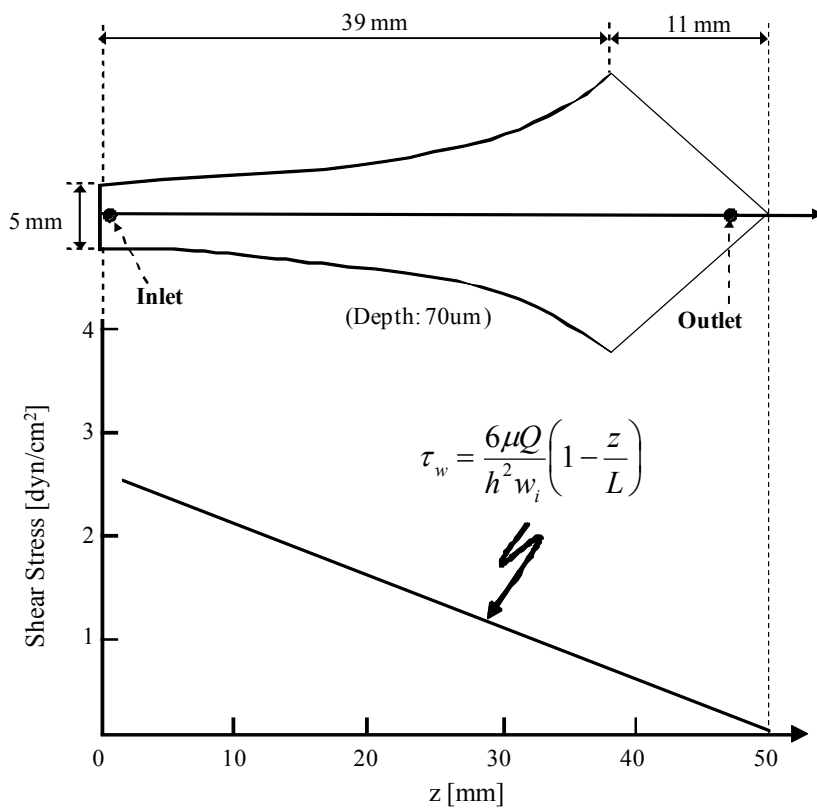


1

### Supplementary Information

Gene		Primer sequences
HLA-DRA	Forward	AGACAAGTTCACCCCACCCAG
	Reverse	AGCATCAAACCTCCCAGTGC
CD133	Forward	GCCAGCCTCAGACAGAAAAC
	Reverse	CCAAGCCTTAGGAGCATCTG
CD146	Forward	CTGCTGAGTGAACCACAGGA
	Reverse	TCAGGTCATGCAACTGAAGC
CD45	Forward	GCCAGGTCTGGAACATGACT
	Reverse	CGCAATTCTTATGCGACTCA
VEGFR1	Forward	GGCTCTGTGGAAAGTTCAGC
	Reverse	GCTCACACTGCTCATCCAAA

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**Fig S1.** Flow chamber geometry and shear stress profile based on the design developed by Murthy et al.<sup>1</sup> The relationship between shear stress ( $\tau_w$ ) and axial position ( $z$ ) is given by the equation derived by Usami et al.<sup>2</sup>

3

- 1 1. S. K. Murthy, A. Sin, R. G. Tompkins and M. Toner, *Langmuir*, 2004, **20**, 11649-11655.
- 2 2. S. Usami, H. H. Chen, Y. H. Zhao, S. Chien and R. Skalak, *Ann. Biomed. Eng.*, 1993, **21**, 77-83.