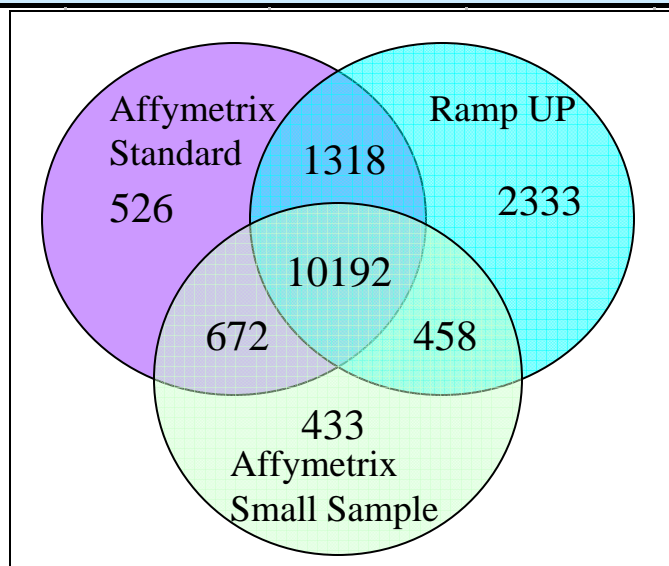


Compatibility with Affymetrix Platform (U133A)

Amplification Strategy	Input Total RNA	Rounds of Amplification	1st Round RT Primer	Correlation to Standard Labeling (Pearson)	Genes Present (% Affy Std)	Scale Factor	3'/5' Ratio GAPDH	3'/5' Ratio Actin
Genisphere Experimental:								
Affymetrix Standard Labeling	1000ng	1.0	T7/dT primer	N/A	55.0%	1.53	2.20	2.80
Affymetrix Small Sample Version II	100ng	2.0	T7/dT primer	0.90	52.0%	1.10	2.50	22.40
RampUP + Biotin RT	10ng	2.0	RP/dT	0.89	64.5%	0.72	1.40	2.70
Literature Values:								
Affymetrix Small Sample Version II (1)	10-100ng	2.0	T7/dT primer	0.90	(93-95%)	1-2.5	2.0-3.0	5.6-13.1
1 Round T7 Amp. + Standard Labeling (2)	10-100ng	2.0	T7/dT primer	0.87-0.88	~(92-93%)	not reported	4.0-19.0	4.0-19.0
(1) Affymetrix Small Sample Sample Target Labeling Assay Version II, Technical Note, Affymetrix, INC (2002).								
(2) Kenzelmann, M, et.al. High-accuracy Amplification of Nanogram Total RNA Amounts for Gene Profiling, Genomics 83 (2003), 550-558								

Data Comparison

91% genes common between Ramp UP and Affymetrix Standard verses
85% common between Affymetrix Small Sample and Affymetrix Standard



RampUP Reproducibility

Biotinylated cDNA was synthesized from replicate RampUP senseRNA samples and compared on the Affymetrix platform.
Data Concordance : $R^2 = 0.985$
P-call Concordance: $R^2 = >96\%$