

## Appendix

Table 1: Data single-sided DNA size selection

sample name	average size	average	SD	concentration (ng/μl)	average (ng/μl)	SD	recovery (%)
AMP-SS-01	411	405	8.65	5.94	6.03	0.44	92
AMP-SS-02	406			5.97			
AMP-SS-03	408			6.27			
AMP-SS-04	409			6.9			
AMP-SS-05	399			5.68			
AMP-SS-06	395			5.85			
AMP-SS-07	412			5.98			
AMP-SS-08	408			5.86			
AMP-SS-09	406			5.5			
AMP-SS-10	412			6.88			
AMP-SS-11	400			5.73			
AMP-SS-12	397			5.99			
AMP-SS-13	411			5.91			
AMP-SS-14	406			6.08			
AMP-SS-15	403			5.78			
AMP-SS-16	418			6.83			
AMP-SS-17	400			5.77			
AMP-SS-18	393			5.57			
AMP-SS-19	433			6.56			
AMP-SS-20	403			5.95			
AMP-SS-21	402			5.95			
AMP-SS-22	401			6.59			
AMP-SS-23	399			5.93			
AMP-SS-24	395			5.22			
CLN-SS-01	416	407	5.96	5.79	5.46	0.25	83
CLN-SS-02	410			5.13			
CLN-SS-03	406			5.48			
CLN-SS-04	406			5.58			
CLN-SS-05	401			5.57			
CLN-SS-06	396			5.44			
CLN-SS-07	417			5.9			
CLN-SS-08	408			5.14			
CLN-SS-09	404			4.97			
CLN-SS-10	405			5.56			
CLN-SS-11	400			5.34			
CLN-SS-12	397			5.59			
CLN-SS-13	417			5.57			
CLN-SS-14	415			5.5			
CLN-SS-15	408			5.02			
CLN-SS-16	412			5.56			
CLN-SS-17	407			5.6			
CLN-SS-18	403			5.24			
CLN-SS-19	414			5.78			
CLN-SS-20	410			5.51			
CLN-SS-21	406			5.15			
CLN-SS-22	408			5.71			
CLN-SS-23	405			5.5			
CLN-SS-24	401			5.32			
INPUT sheared gDNA	376	373	2.45	6.43	6.5725	0.15	
INPUT sheared gDNA	373			6.48			
INPUT sheared gDNA	373			6.75			
INPUT sheared gDNA	370			6.63			
t-test	0.19			0.00			

Table 2: Data double-sided DNA size selection

sample name	average size	average	SD	concentration (ng/μl)	average (ng/μl)	SD	recovery (%)
AMP-DS-01	382	371	10.44	1.04	1.01	0.09	16
AMP-DS-02	368			0.976			
AMP-DS-03	375			1.04			
AMP-DS-04	368			1.05			
AMP-DS-05	378			1.08			
AMP-DS-06	354			0.995			
AMP-DS-07	392			1.08			
AMP-DS-08	351			0.673			
AMP-DS-09	380			1.07			
AMP-DS-10	367			0.917			
AMP-DS-11	377			1.1			
AMP-DS-12	359			0.953			
AMP-DS-13	355			0.888			
AMP-DS-14	370			1.04			
AMP-DS-15	378			1.06			
AMP-DS-16	370			1.05			
AMP-DS-17	377			1.09			
AMP-DS-18	369			1.12			
AMP-DS-19	375			1.02			
AMP-DS-20	363			1.02			
AMP-DS-21	389			1.07			
AMP-DS-22	374			1.02			
AMP-DS-23	375			1			
AMP-DS-24	360			0.991			
CLN-DS-01	375	357	9.85	0.699	0.74	0.10	12
CLN-DS-02	356			0.733			
CLN-DS-03	362			0.776			
CLN-DS-04	347			0.635			
CLN-DS-05	361			0.758			
CLN-DS-06	343			0.704			
CLN-DS-07	354			0.759			
CLN-DS-08	356			0.69			
CLN-DS-09	364			0.708			
CLN-DS-10	352			0.569			
CLN-DS-11	362			0.659			
CLN-DS-12	343			0.496			
CLN-DS-13	359			0.76			
CLN-DS-14	345			0.72			
CLN-DS-15	377			0.91			
CLN-DS-16	359			0.769			
CLN-DS-17	362			0.736			
CLN-DS-18	376			0.954			
CLN-DS-19	360			0.883			
CLN-DS-20	347			0.775			
CLN-DS-21	352			0.832			
CLN-DS-22	348			0.762			
CLN-DS-23	351			0.817			
CLN-DS-24	348			0.76			
INPUT sheared gDNA	374	373	2.94	6.25	6.3725	0.14	
INPUT sheared gDNA	369			6.51			
INPUT sheared gDNA	376			6.48			
INPUT sheared gDNA	373			6.25			
t-test	0.00			0.00			