

## Supplementary Material For:

# Improving sequencing quality from PCR products containing long mononucleotide repeats

Aron J. Fazekas, Royce Steeves, and Steven G. Newmaster

Department of Integrative Biology, University of Guelph, Guelph, Ontario, Canada

BioTechniques 48:277-285 (April 2010) doi 10.2144/000113369

Keywords: stutter bands; slipped-strand mispairing; mononucleotide repeat; sequence quality; Sso7D

**Supplementary Table S1. Species and GenBank accession numbers for samples included in this study, with corresponding length of mononucleotide repeat(s) and quality score, for five tested DNA polymerases**

Species	GenBank accession no.	Length of mononucleotide repeat(s)	Percentage of bases between the 3' end of the first mononucleotide repeat and the reverse priming site with quality score >20					Length (bp)
			Phusion	Herculase II Fusion	KAPAHifi	Topo Taq HF	Ampli Taq Gold	
<i>Salix lucida</i>	GU562404	10 A's, 9 T's	100	100	100	80.6	92.3	196
<i>Silene latifolia</i>	GU562391	10 T's, 9 A's	99.4	100	100	92.4	86.7	158
<i>Portulaca oleracea</i>	GU562401	10 A's	97.8	100	100	71.1	68.9	45
<i>Salix bebbiana</i>	GU562403	11 A's, 9 T's	100	100	98.9	55	84.2	190
<i>Prunus virginiana</i>	GU562409	11 T's	100	100	97.1	51.2	84.7	209
<i>Stellaria longifolia</i>	GU562396	11 T's	99.2	100	100	81.1	95.1	122
<i>Solanum lycopersicon</i>	GU562406	11 T's	99.2	100	100	95.7	51.3	374
<i>Mitella diphylla</i>	GU562388	12 T's, 10 A's	99.5	99.5	38.5	44.8	17.1	222
<i>Populus balsamifera</i>	GU562411	12 A's, 12 T's	98.2	100	14	10.5	13.2	228
<i>Hieracium pilosella</i>	GU562407	12 T's	96.7	98.4	70.7	17.9	14.6	123
<i>Crataegus chryscarpa</i>	GU562399	11 T's, 13 A's	100	96.9	13	22.9	14.5	131
<i>Malus pumila</i>	GU562389	13 T's, 10 A's	99.2	98.4	16.4	21.1	33.6	128
<i>Chelidonium majus</i>	GU562390	13 T's	96.9	99.3	22.7	11.2	46.8	295
<i>Viburnum opulus</i>	GU562393	13 A's	96.5	100	22.6	2.4	5.9	85
<i>Cynanchum rossicum</i>	GU562395	13 A's, 9 T's	92.9	100	87.2	23.7	18.0	266
<i>Populus deltoides</i>	GU562412	13 A's, 13 T's	80.6	96.2	20.4	13.3	13.3	211
<i>Hypericum punctatum</i>	GU562400	11 A's, 14 T's	89.1	98.5	66.9	51.1	45.5	549
<i>Hieracium caespitosum</i>	GU562397	14 T's	48.3	82.8	9.2	6.9	9.0	89
<i>Lepidium campestre</i>	GU562410	15 Ts	78.8	87.2	15.4	4.5	17.9	156
<i>Scirpus atrovirens</i>	GU562408	15 T's	78.4	72.8	28.8	11.7	7.2	547
<i>Crataegus macrantha</i>	GU562392	15 T's, 13 A's	72.7	18.2	23.5	20.5	18.1	132
<i>Crataegus mollis</i>	GU562402	15 T's, 13 A's	58.0	21.7	47.5	35.8	34.5	119
<i>Hieracium piloselloides</i>	GU562405	15 T's	55.3	87.4	29.1	20.4	21.4	103
<i>Clematis virginiana</i>	GU562398	16 A's	15.5	3.9	1.9	0	7.7	155
<i>Mitella nuda</i>	GU562394	17 T's, 10 A's	13.6	11	16.8	13.6	11	191